

**Comune
di
Deliceto**

**Regione
Puglia**

**Provincia
di
Foggia**


Titolo:

Progetto di un impianto di produzione di energia elettrica da fonte solare fotovoltaica della potenza nominale di 15,681 MWp e delle relative opere di connessione alla Rete Elettrica Nazionale, denominato "APPIANO" da realizzarsi in regime *agrovoltaico* nel comune di Deliceto (FG) alla C.da "Tremoletto".

VALUTAZIONE DI IMPATTO AMBIENTALE

ai sensi del D.Lgs 152/2006

- Progetto Definitivo -

Elaborato:

RELAZIONE CALCOLI PRELIMINARI DELLE STRUTTURE

Codice Interno:

DOC.10

Formato:

A4

Cod. File:

FTZK5G0_CalcoliPreliminari

Scala:

n.a.

Codice Pratica:

FTZK5G0

Studio di Progettazione:

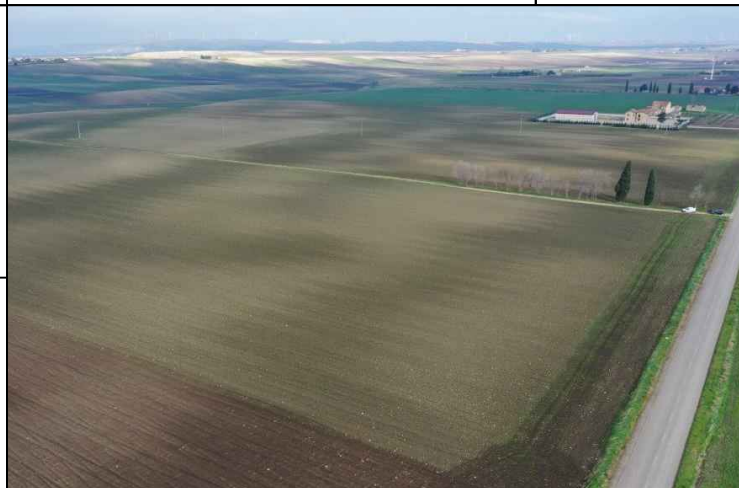

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Progettista:

Ing. Saverio LIOCE



Latitudine: 41° 15' 35.65" N

Longitudine: 15° 25' 44.98" E

Rev.	Data	Descrizione revisione:	Redatto:	Controllato:	Approvato:
0	01/2022	Prima emissione	Ing. Martino MAGNATTA	Ing. Saverio LIOCE	Ing. Saverio LIOCE
1	mm/aaaa				
2	mm/aaaa				

RELAZIONE DI CALCOLO

Premessa

La presente relazione illustra il dimensionamento, calcolo e verifica delle strutture portanti degli inseguitori solari (tracker), della soletta/platea per il carico pressione trasmesso dalle cabine di conversione e trasformazione e dei paletti in acciaio atti a sopportare gli scarichi dei pannelli grigliati tipo Orso grill Sterope costituenti la recinzione perimetrale relativi al progetto di un impianto di produzione di energia elettrica da fonte solare fotovoltaica della potenza nominale di **15,681 MW**, nonché di potenza di immissione in rete pari a 15,6197 MW, che la società **VRD 28.4 S.R.L** intende realizzare su terreno agricolo in agro del Comune di Deliceto (FG). L'impianto fotovoltaico, denominato "**APPIANO**", sarà integrato (*agrovoltaiico*) con la coltivazione di piante di asparago posizionate tra le file dei moduli fotovoltaici e con predisposizione di relativo sistema di fertirrigazione.

Inseguitori solari.

La progettazione, il calcolo e la verifica degli inseguitori solari (tracker) viene condotta in accordo alle normative tecniche delle costruzioni vigenti NTC-18 e circolare ministeriale n.7/2019.

Il modello di calcolo si articola in travi e pilastri modellati con aste a due nodi e quindi con elementi a sviluppo monodimensionale di tipo D2 soggette a stati di sollecitazioni di tipo assiale, tagliante e flettente.

La struttura portante degli inseguitori solari ospita n.32 pannelli fotovoltaici di dimensioni 130x220. La struttura portante, dimensionata, calcolata e verificata, si articola in:

- pilastri in acciaio S275 di sezione ad ala larga HEA160 con luce di taglio $L=200\text{cm}$;
- trave principale in acciaio S355 di tipo scatolare quadrata 140x140x8 posizionata nella prima configurazione limite con orientamento a zero gradi e nella seconda configurazione limite con inclinazione di 55 gradi sull'orizzontale;
- travi secondarie in acciaio S275 di tipo omega 100x60x30x2.5 poste ad interesse $i=130\text{cm}$ con funzione porta pannello.

Il carico permanente strutturale dei pannelli fotovoltaici è $G_k1=20\text{ kg/mq}$; nel calcolo si considera a vantaggio di sicurezza un ulteriore carico permanente non strutturale $G_k2=10\text{ kg/mq}$ ed un sovraccarico neve con valore massimo $Q_n=170\text{ kg/mq}$ nella configurazione con inclinazione a zero gradi e con valore minimo $Q_n=50\text{kg/mq}$ nella configurazione con inclinazione massima a 55 gradi sull'orizzontale. I tracker vengono progettati, calcolati e verificati, ai sensi del DM18 e c.n. 7/2019, con il metodo semiprobabilistico agli Stati Limite e, nello specifico, ciascuna delle due configurazioni limite:

- a Stato Limite Ultimo, considerando l'azione della neve e del vento in pressione e depressione;
- a Stato Limite di Esercizio, valutando il normale comportamento in esercizio delle strutture portanti;
- a Stato Limite di salvaguardia della Vita Umana, sotto azioni sismiche, per terremoti di forte entità ma con probabilità di accadimento molto bassa nel periodo di riferimento della struttura;
- a Stato Limite di Danno, sotto azioni sismiche, per terremoti di più lieve entità ma con una probabilità di accadimento più alta nel periodo di riferimento della struttura.

Allo Stato Limite Ultimo, ciascuna delle due configurazioni limite dei tracker è oggetto di verifica con n.8 combinazioni dei carichi.

Allo Stato Limite di Esercizio, ciascuna delle due configurazioni limite dei tracker è oggetto di verifica con n.8 combinazioni rare dei carichi, n.4 combinazioni frequenti dei carichi e n.1 combinazione permanente dei carichi.

Allo Stato Limite di salvaguardia della Vita Umana, ciascuna delle due configurazioni limite dei tracker è oggetto di verifica considerando n.32 combinazioni sismiche.

Allo Stato Limite di Danno, ciascuna delle due configurazioni limite dei tracker è oggetto di verifica considerando n.32 combinazioni sismiche.

Per le verifiche SLV e SLD si assume una vita nominale $V_n=50$ anni, coefficiente d'uso $C_u=1.0$ e periodo di riferimento $V_r=50$ anni, ai sensi del §2.4.1,2.4.2,2.4.3 NTC-18. Dall'elaborato specialistico "Relazione Geologica", il terreno è definito con categoria stratigrafica "B" mentre nel calcolo si assume una categoria topografica "T2" a vantaggio di sicurezza.

Si precisa che nelle verifiche SLU, l'azione del vento è stata calcolata considerando l'azione agente in pressione e in depressione. Da calcolo NTC-18, che si riporta di seguito, la pressione del vento è pari a $p_v=87$ kg/mq, mentre nel calcolo si è assunto, a vantaggio di sicurezza, $p_v=100$ kg/mq.

Il calcolo dell'azione del vento in pressione fa riferimento alle tettoie ad unica falda, assumendo:

- coefficiente $c_p=0.80$ per vento in pressione, con pressione $p_{v+}=80$ kg/mq;
- coefficiente $c_p=$ per vento in depressione, con pressione $p_{v-}=100$ kg/mq.

Considerando un interasse $i=150$ cm a vantaggio di sicurezza (nella reale disposizione $i=130$ cm), i carichi lineari da vento sui profili omega sono:

- $p_{v+}= -1.20$ kg/cml;
- $p_{v-}= 1.5$ kg/cml.

Si precisa, inoltre, che l'azione della neve è massima nella configurazione con inclinazione pari a zero gradi sull'orizzontale, $Q_{kn}=165$ kg/mq: nel calcolo, a vantaggio di sicurezza, si è assunto $Q_{kn}=170$ kg/mq. Al contrario, nella configurazione con inclinazione a 55 gradi sull'orizzontale, il carico neve è minimo, pari a 28 kg/mq da calcolo NTC-18, mentre il dimensionamento è stato condotto con $Q_{kn}=50$ kg/mq a vantaggio di sicurezza.

Il calcolo geotecnico delle fondazioni dei tracker viene condotto, in accordo alle NTC-18 e c.m. 7/19, avendo dimensionato, calcolato e verificato pali di fondazione in acciaio ad elica di tipo Elika Systab. I pali ad elica sono caratterizzati da:

- fusto diametro 76mm in acciaio S355;
- spessore fusto 8mm;
- profondità fusto 4m, con 3.7m infissi a partire dallo strato a profondità pari a -50.00cm da p.c. e 0.30m di sporgenza;
- diametro elica 350mm;
- altezza elica 500mm;
- spessore esterno elica 25mm, spessore interno elica 24mm;
- n.6 eliche a distanza 30cm dalla punta.

I pali ad elica sono dimensionati, calcolati e verificati con le n.3 combinazioni di carico più gravose SLU e SLV che contemplano uno sforzo normale di compressione. I pali sono dimensionati anche con una quarta combinazione di carico che tiene conto dello sforzo normale di trazione SLU. Nell'elaborato specialistico "Relazione Geotecnica e delle fondazioni" vengono riportati i criteri di dimensionamento e verifica dei pali ad elica.

ANALISI A NEVE E VENTO INCL. ZERO GRADI

LOCALIZZAZIONE DELL'INTERVENTO

Località: DELICETO
Provincia: FOGGIA
Regione: PUGLIA

Coordinate GPS:
Latitudine : 41,22200 N
Longitudine: 15,38600 E

Altitudine s.l.m.: 575,0 m

CALCOLO DELLE AZIONI DELLA NEVE E DEL VENTO

Normativa di riferimento:
D.M. 17 gennaio 2018 - NORME TECNICHE PER LE COSTRUZIONI
Cap. 3 - AZIONI SULLE COSTRUZIONI - Par. 3.3 e 3.4

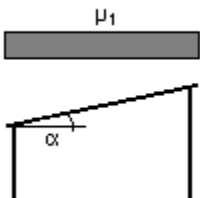
NEVE:

Zona Neve = II
Periodo di ritorno, $T_r = 50$ anni
 $C_{tr} = 1$ per $T_r = 50$ anni
 C_e (coeff. di esposizione al vento) = 1,00
Valore caratteristico del carico al suolo = $q_{sk} C_e C_{tr} = 206$ daN/mq

Copertura ad una falda:

Angolo di inclinazione della falda $\alpha = 0,0^\circ$
- Copertura piana $W = 2.2$ m, $L = 50.0$ m $\Rightarrow L_c = 4.3$, $C_{ef} = 1.000$
 $\mu_1 = 0,80 \Rightarrow Q_1 = 165$ daN/mq

Schema di carico:



VENTO:

Zona vento = 3
Velocità base della zona, $V_{b.o} = 27$ m/s (Tab. 3.3.I)
Altitudine base della zona, $A_o = 500$ m (Tab. 3.3.I)
Altitudine del sito, $A_s = 575$ m
 $K_a = 0,370$ (Tab. 3.3.I)

Velocità di riferimento, $V_b = V_{b.o} (1 + K_a (A_s/A_o - 1)) = 28,50 \text{ m/s}$
Periodo di ritorno, $T_r = 50 \text{ anni}$
 $C_r = 1$ per $T_r = 50 \text{ anni}$
Velocità riferita al periodo di ritorno di progetto, $V_r = V_b C_r = 28,50 \text{ m/s}$

Classe di rugosità del terreno: D

[Aree prive di ostacoli o con al di più rari ostacoli isolati (aperta campagna, aeroporti, aree agricole, zone paludose o sabbiose, superfici innevate o ghiacciate, mare, laghi,...)]

Esposizione: Cat. II - Entroterra fino a 750 m di altitudine
($K_r = 0,20$; $Z_o = 0,10 \text{ m}$; $Z_{\min} = 5 \text{ m}$)
Pressione cinetica di riferimento, $q_b = 51 \text{ daN/mq}$

Coefficiente di forma, $C_p = 1,00$
Coefficiente dinamico, $C_d = 1,00$
Coefficiente di esposizione, $C_e = 1,71$
Coefficiente di esposizione topografica, $C_t = 1,00$
Altezza dell'edificio, $h = 5,00 \text{ m}$

Pressione del vento, $p = q_b C_e C_p C_d = 87 \text{ daN/mq}$

TEMPERATURA DELL'ARIA ESTERNA:

Zona: III

$T_{\min} = -12.03^\circ$ [NTC 3.5.5]

$T_{\max} = 41.83^\circ$ [NTC 3.5.6]

ANALISI A NEVE E VENTO INCL. 55 GRADI LOCALIZZAZIONE DELL'INTERVENTO

Località: DELICETO
Provincia: FOGGIA
Regione: PUGLIA

Coordinate GPS:
Latitudine: 41,22200 N
Longitudine: 15,38600 E

Altitudine s.l.m.: 575,0 m

CALCOLO DELLE AZIONI DELLA NEVE E DEL VENTO

Normativa di riferimento:
D.M. 17 gennaio 2018 - NORME TECNICHE PER LE COSTRUZIONI
Cap. 3 - AZIONI SULLE COSTRUZIONI - Par. 3.3 e 3.4

NEVE:

Zona Neve = II
Periodo di ritorno, $T_r = 50 \text{ anni}$
 $C_{tr} = 1$ per $T_r = 50 \text{ anni}$

C_e (coeff. di esposizione al vento) = 1,00

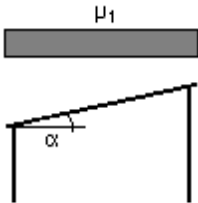
Valore caratteristico del carico al suolo = $q_{sk} C_e C_{tr} = 206 \text{ daN/mq}$

Copertura ad una falda:

Angolo di inclinazione della falda $\alpha = 55,0^\circ$

$\mu_1 = 0,13 \Rightarrow Q_1 = 28 \text{ daN/mq}$

Schema di carico:



VENTO:

Zona vento = 3

Velocità base della zona, $V_{b.o} = 27 \text{ m/s}$ (Tab. 3.3.I)

Altitudine base della zona, $A_o = 500 \text{ m}$ (Tab. 3.3.I)

Altitudine del sito, $A_s = 575 \text{ m}$

$K_a = 0,370$ (Tab. 3.3.I)

Velocità di riferimento, $V_b = V_{b.o} (1 + K_a (A_s/A_o - 1)) = 28,50 \text{ m/s}$

Periodo di ritorno, $T_r = 50$ anni

$C_r = 1$ per $T_r = 50$ anni

Velocità riferita al periodo di ritorno di progetto, $V_r = V_b C_r = 28,50 \text{ m/s}$

Classe di rugosità del terreno: D

[Aree prive di ostacoli o con al di più rari ostacoli isolati (aperta campagna, aeroporti, aree agricole, zone paludose o sabbiose, superfici innevate o ghiacciate, mare, laghi,...)]

Esposizione: Cat. II - Entroterra fino a 750 m di altitudine

($K_r = 0,20$; $Z_o = 0,10 \text{ m}$; $Z_{min} = 5 \text{ m}$)

Pressione cinetica di riferimento, $q_b = 51 \text{ daN/mq}$

Coefficiente di forma, $C_p = 1,00$

Coefficiente dinamico, $C_d = 1,00$

Coefficiente di esposizione, $C_e = 1,71$

Coefficiente di esposizione topografica, $C_t = 1,00$

Altezza dell'edificio, $h = 5,00 \text{ m}$

Pressione del vento, $p = q_b C_e C_p C_d = 87 \text{ daN/mq}$

TEMPERATURA DELL'ARIA ESTERNA:

Zona: III

$T_{min} = -12,03^\circ$ [NTC 3.5.5]

$T_{max} = 41,83^\circ$ [NTC 3.5.6]

Soletta/platea per cabine di conversione e trasformazione

La soletta di base/platea della cabina di conversione (*da corrente continua in alternata*) e trasformazione (*da bassa a media tensione*) viene progettata a Stato Limite Ultimo per il carico massa/pressione dato dalla cabina appoggiata e Stato Limite di Esercizio. Non essendo presente alcun impalcato, la struttura portante non è soggetta a forze di tipo taglianti trasmesse da elementi portanti verticali. Il carico cabina è un carico complessivo pari a 18 tonnellate, corrispondente ad un carico impronta $G_{k2}=0.12$ kg/cmq.

Si considera applicata sulla platea una pressione $Q_k E=0.02$ kg/cmq, un carico variabile di tipo generico atto a simulare la presenza di addetti alla manutenzione. La platea è dimensionata per sporgere su tutti i lati di 50cm, per cui esibisce dimensioni 350x710 con spessore pari a 40cm.

E' progettata, calcolata e verificata con calcestruzzo di resistenza cubica pari a 300 kg/cmq e acciaio B450C da c.a. con tensione di snervamento pari a 4500 kg/cmq.

Si riporta di seguito l'analisi dei carichi per la soletta/platea della cabina inverter.

Dati generali	
Dimensioni container ISO da 20 piedi (L / A / P)	6058 mm / 2896 mm / 2438 mm
Peso	< 18 t
Autoconsumo (max / carico parziale / medio) ¹⁾	< 8,1 kW / < 1,8 kW / < 2,0 kW
Autoconsumo (stand-by) ¹⁾	< 370 W
Temperatura ambiente da -25°C a +45°C / da -25°C a +55°C	● / ○
Grado di protezione secondo IEC 60529	Cabine elettriche IP23D, elettronica inverter IP54
Ambiente: standard / critico	● / ○
Grado di protezione secondo IEC 60721-3-4 (4C1, 4S2 / 4C2, 4S4)	● / ○
Valore massimo ammissibile per l'umidità relativa	95% (per 2 mesi/anno)
Altitudine operativa max. s.l.m. 1000 m / 2000 m	● / ○
Fabbisogno d'aria fresca inverter	6500 m³/h

Geometria		
B	mm	6058
	cm	605.8
Bpl	cm	705.8
	cm	710
H	mm	2438
	cm	243.8
Hpl	cm	343.8
	cm	350
Gk2 cabina inverter		
Peso	t	18
	kg	18000
A	cmq	147694
Peso/impronta	kg/cmq	0.12
Qk E cabina inverter		
Peso/impronta	kg/mq	200.00
	kg/cmq	0.02

Le verifiche strutturali a SLU prevedono n.2 combinazioni, mentre le verifiche SLE prevedono l'utilizzo di n.2 combinazioni rare dei carichi, n.1 combinazione frequente dei carichi e n.1 combinazione permanente. L'armatura calcolata è a doppia maglia Ø 16 20x20 superiore e inferiore con copriferro pari a 50mm avendo calcolato gli stati limite di esercizio in condizioni ambientali aggressive.

Le verifiche geotecniche sono condotte sia in condizioni drenate CD che in condizioni non drenate CU. Le verifiche di portanza peggiori sono riferite alle condizioni CU non drenate.

Per il soddisfacimento delle verifiche geotecniche a carico limite è prevista una bonifica di 70cm da p.c. con ghiaietto costipato.

Recinzione.

La recinzione perimetrale del campo fotovoltaico sarà realizzata con elementi pannello tipo Orsogrill Sterope, caratterizzata da elementi orizzontali e verticali sottili agganciati a paletti laterali posizionati ad interasse di 200cm. L'altezza dei paletti è di 250cm, con infissione nel terreno a mezzo di sistemi certificati Vortek. Il dimensionamento, il calcolo e la verifica dei paletti viene condotto sotto azione da carico proprio trasmesso dai pannelli e sotto azione del vento come forze concentrate nei n.6 punti di aggancio delle griglie ai paletti di sezione quadrata 60x2 S275 a mezzo di bullonature nelle asole. Il dimensionamento, il calcolo e la verifica dei paletti, con riferimento ad un'estensione di 10m, viene condotta agli Stati Limite e, in particolare:

- a Stato Limite Ultimo con n.2 combinazioni dei carichi;
- a Stato Limite di Esercizio considerando n.2 combinazioni rare dei carichi, n.1 combinazione frequente dei carichi e n.1 combinazione permanente dei carichi.

Si riporta, di seguito, l'analisi dei carichi agenti sui paletti di recinzione.

Analisi pannello recinzione Orsogrill Sterope

Peso proprio

	n	L	s	A
Correnti verticali	18	cm	cm	cmq
Correnti orizzontali	21	200	0.5	2100
Area pannello				4080
Peso pannello	kg/mq	50		
Area	cmq	4080		
Peso-Forza concentrata	kg	20		
Numero di nodi	n	6		
Forza nodale da peso proprio	kg	3		
Forza nodale x calcolo	kg	7		

Analisi pannello recinzione pannelli Orsogrill Sterope

Vento

	n	L	s	A
Correnti verticali	18	cm	cm	cmq
Correnti orizzontali	21	200	0.5	2100
Area pannello				4080
Pressione vento	kg/mq	100		
Coefficiente cp+ in pressione	[-]	0.8		
Pressione vento	kg/mq	80		
Area	cmq	4080		
Peso-Forza concentrata	kg	33		
Numero di nodi	n	6		
Forza nodale da vento	kg	5		
Forza nodale x calcolo	kg	11		

Il Progettista



The image shows a handwritten signature in black ink over a blue circular stamp. The stamp contains the text 'INGEGNERIA', 'N. 2530', and 'S. GIOVANNI LIPOLI' around the perimeter. The signature is written in a cursive style.



Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 17 Gennaio 2018 cap. 10 “Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo”.

Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2021-12-194)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it
Codice Licenza:	Licenza dsi5815

Descrizione	
Progetto	CALCOLO E VERIFICA DI INSEGUITORI SOLARI (TRACKER)
Ubicazione	Comune di DELICETO (FG) (Regione PUGLIA) Località DELICETO (FG) Longitudine 15.386, Latitudine 41.222

FASCICOLO DI CALCOLO
TOMO N.1 – VERIFICHE DI RESISTENZA TRACKER SLU/SLE
A NEVE + VENTO

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RELAZIONE DI CALCOLO STRUTTURALE

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.

Descrizione generale dell'opera

In questo **Tomo di calcolo n.1** si affrontano le verifiche a Stato limite ultimo e in Esercizio degli inseguitori solari sotto azioni statiche di neve e vento.

Descrizione generale dell'opera	
Ubicazione	Comune di DELICETO (FG) (Regione PUGLIA)
	Località DELICETO (FG)
	Longitudine 15.386, Latitudine 41.222
Tipo di struttura	ACCIAIO

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

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:

$K \cdot u = F$ 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 rigidità)
Elemento tipo BRICK	(elemento solido)
Elemento tipo SOLAIO	(macro elemento composto da più membrane)

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	
Sismica statica lineare	NO
Sismica dinamica lineare	NO
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
Analisi lineare	SI

Modellazione della geometria e proprietà meccaniche:	
nodi	216
elementi D2 (per aste, travi, pilastri...)	214
elementi D3 (per pareti, platee, gusci...)	0
elementi solaio	128
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	500.00
Xmax =	4660.00
Ymin =	0.00
Ymax =	2173.09
Zmin =	0.00

Z _{max} =	290.11
Strutture verticali:	
Elementi di tipo asta	NO
Pilastrini	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	SI
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

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”**.

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
SLU	SI
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI

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 involuipi 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.) .

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.

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.

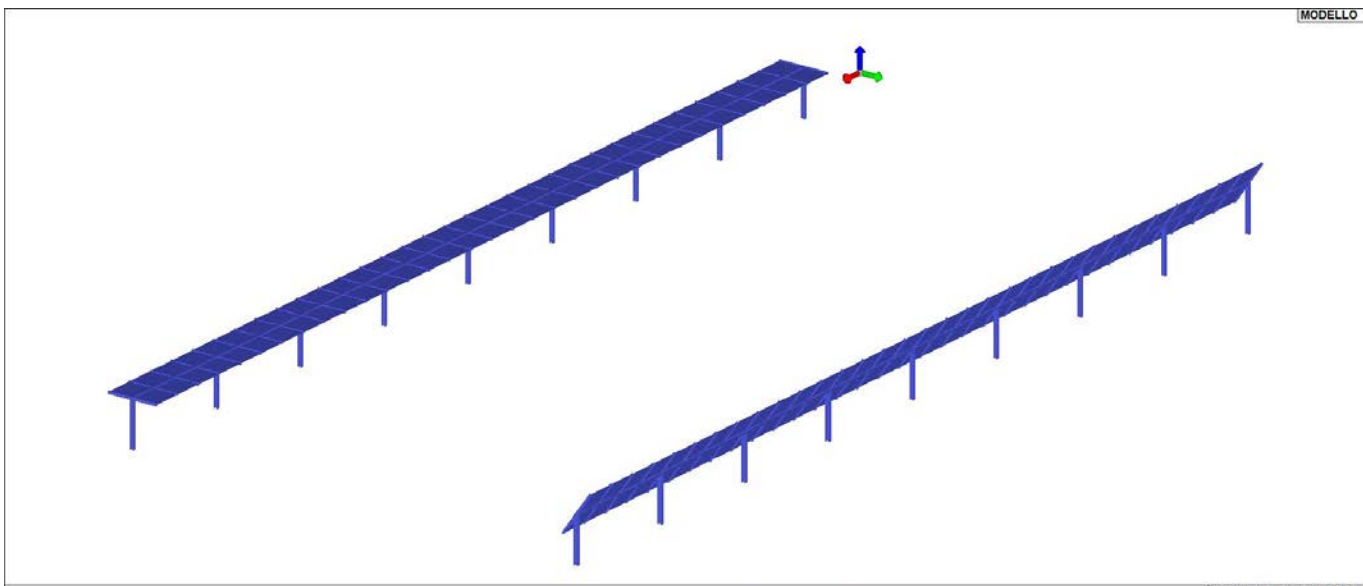
RELAZIONE SUI MATERIALI

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

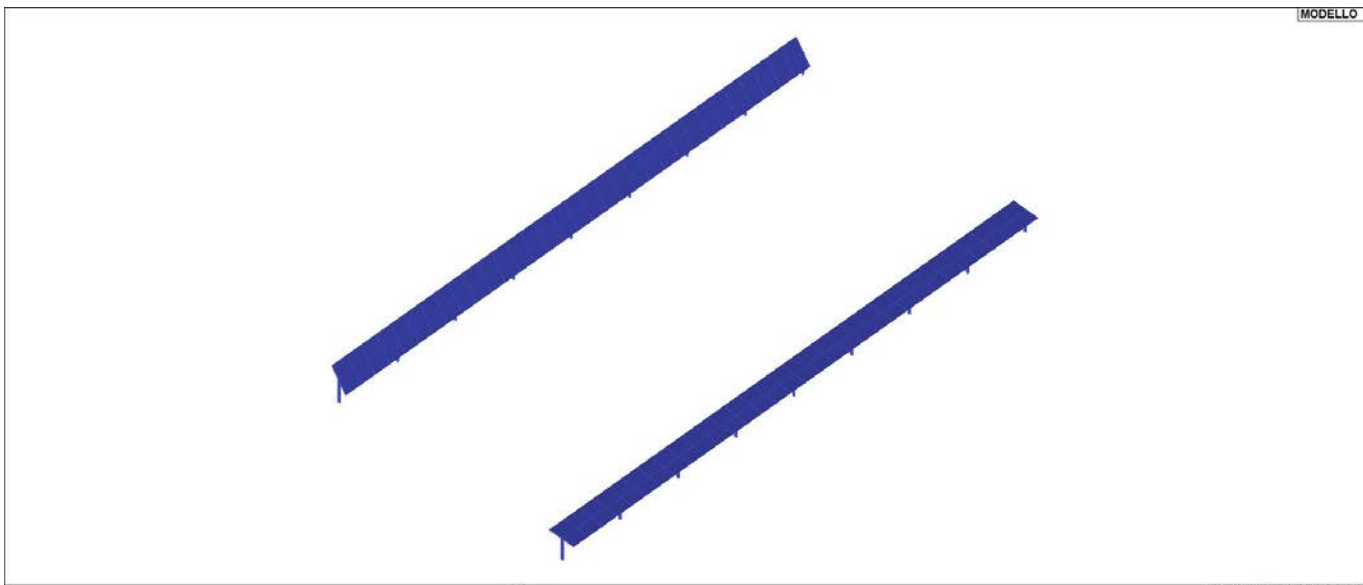
NORMATIVA DI RIFERIMENTO

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.



01_INT_VISTA_SOLIDA_001



01_INT_VISTA_SOLIDA_002

CARATTERISTICHE MATERIALI UTILIZZATI

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:

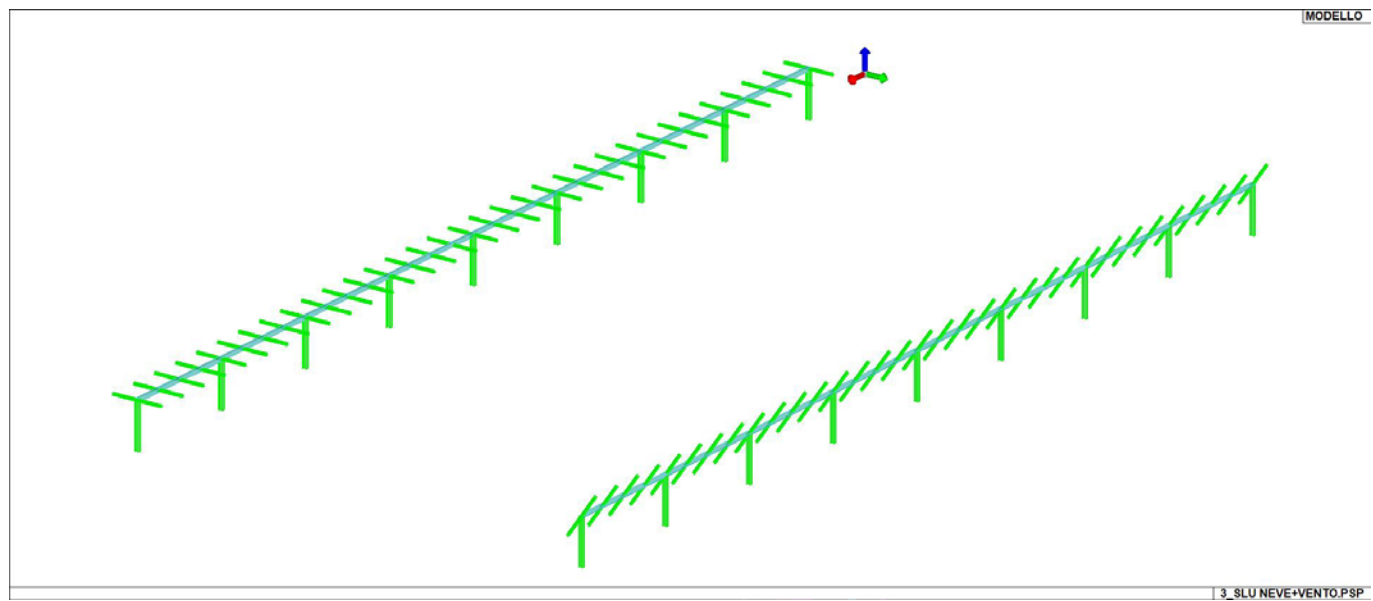
Young	modulo di elasticità normale E
Poisson	coefficiente di contrazione trasversale ν
G	modulo di elasticità tangenziale
Gamma	peso specifico
Alfa	coefficiente di dilatazione termica
Fattore di confidenza FC m	Fattore di confidenza specifico per materiale; (è riportato solo se diverso da quello globale 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	c.a.	Resistenza Rc Resistenza fctm Coefficiente ksb	resistenza a compressione cubica resistenza media a trazione semplice Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft Tensione fy Resistenza fd Resistenza fd (>40) Tensione ammissibile Tensione ammissibile(>40)	Valore della tensione di rottura Valore della tensione di snervamento Resistenza di calcolo per SL CNR-UNI 10011 Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm Tensione ammissibile CNR-UNI 10011 Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura	Muratura consolidata Incremento resistenza Incremento rigidezza Resistenza f Resistenza fv0 Resistenza fh Resistenza fb Resistenza fbh Resistenza fv0h Resistenza ft Resistenza fvlim Resistenza fbt Coefficiente mu Coefficiente fi Coefficiente ksb	Muratura per la quale si prevedono interventi di rinforzo" Incremento conseguito in termini di resistenza Incremento conseguito in termini di rigidezza Valore della resistenza a compressione Valore della resistenza a taglio in assenza di tensioni normali Valore della resistenza a compressione orizzontale Valore della resistenza a compressione dei blocchi Valore della resistenza a compressione dei blocchi in direzione orizzontale Valore della resistenza a taglio in assenza di tensioni normali per le travi Valore della resistenza a trazione per fessurazione diagonale Valore della massima resistenza a taglio Valore della resistenza a trazione dei blocchi Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4) Coefficiente d'ingranamento utilizzato per la resistenza a taglio Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	E0,05 Resistenza fc0 Resistenza ft0 Resistenza fm Resistenza fv Resist. ft0k Resist. frm Resist. fvk Modulo E0,05 Lamellare	Modulo di elasticità corrispondente ad un frattile del 5% Valore della resistenza a compressione parallela Valore della resistenza a trazione parallela Valore della resistenza a flessione Valore della resistenza a taglio Resistenza caratteristica (tensione amm. per REGLES) per trazione Resistenza caratteristica (tensione amm. per REGLES) per flessione Resistenza caratteristica (tensione amm. per REGLES) per taglio Modulo elastico parallelo caratteristico 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.

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm ²	daN/cm ²	daN/cm ²		daN/cm ²	daN/cm ³		
12	Acciaio Fe430 - S275-acciaio Fe430-S275			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	4300.0							
	Resistenza fd	2750.0							
	Resistenza fd (>40)	2500.0							
	Tensione ammissibile	1900.0							
	Tensione ammissibile (>40)	1700.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
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



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

Travi acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
3-3 Beta * L automatico	SI	SI	SI	SI	SI	NO
3-3 Beta assegnato	1.00	1.00	1.00	1.00	1.00	0.0
3-3 Beta assegnato [cm]	0.0	0.0	0.0	0.0	0.0	130.00
2-2 Beta * L automatico	SI	SI	SI	SI	SI	SI
2-2 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
1-1 Beta * L automatico	SI	SI	SI	SI	SI	SI
1-1 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
Generalità						
Coefficiente gamma M0	1.05	1.05	1.05	1.05	1.05	1.05
Coefficiente gamma M1	1.05	1.05	1.05	1.05	1.05	1.05
Coefficiente gamma M2	1.25	1.25	1.25	1.25	1.25	1.25
Luce di taglio per GR [cm]	0.0	1.00	1.00	1.00	1.00	0.0
Usa condizioni I e II	SI	SI	SI	SI	SI	SI
Momenti equivalenti	SI	SI	SI	SI	SI	SI

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	NO	NO	NO	NO	NO	NO
Af inf: da traliccio	SI	SI	SI	SI	SI	SI
Consenti armatura a taglio	NO	NO	NO	NO	NO	NO
Incrementa armatura longitudinale per taglio	SI	SI	SI	SI	SI	SI
Af inf: da q*L/L /	20.00	20.00	20.00	20.00	20.00	20.00
Incremento fascia piena [cm]	5.00	5.00	5.00	5.00	5.00	5.00
Armatura						
Minima tesa	0.15	0.15	0.15	0.15	0.15	0.15
Massima tesa	3.00	3.00	3.00	3.00	3.00	3.00
Minima compressa	0.0	0.0	0.0	0.0	0.0	0.0
Af/h [cm]	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
Fattore di redistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00	85.00	85.00	85.00	85.00	85.00
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00	2600.00	2600.00	2600.00
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
Verifica freccia						
Infinita	250.00	250.00	250.00	250.00	250.00	250.00
Istantanea	500.00	500.00	500.00	500.00	500.00	500.00
Fattore viscosità	3.00	3.00	3.00	3.00	3.00	3.00
Usa J non fessurato	NO	NO	NO	NO	NO	NO
Elementi non strutturali						
Tamponatura antiespulsione	NO	NO	NO	NO	NO	NO
Tamponatura con armatura	NO	NO	NO	NO	NO	NO
Fattore di struttura/comportamento	2.00	2.00	2.00	2.00	2.00	2.00
Coefficiente gamma m	0.0	0.0	0.0	0.0	0.0	0.0
Periodo Ta	0.0	0.0	0.0	0.0	0.0	0.0
Altezza pannello	0.0	0.0	0.0	0.0	0.0	0.0

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

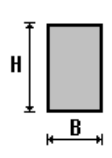
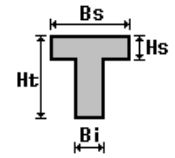
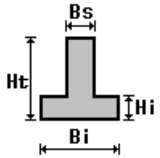
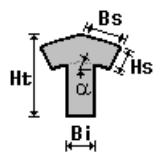
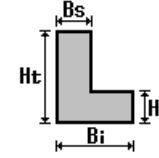
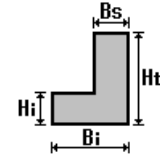
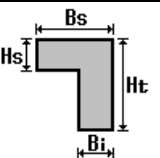
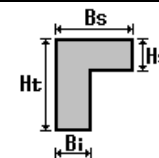
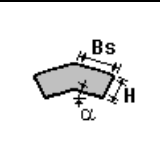
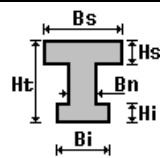
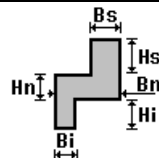
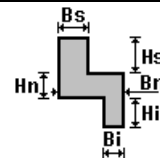
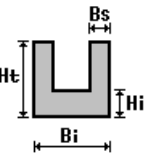
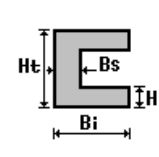
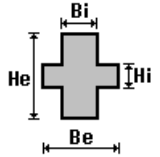
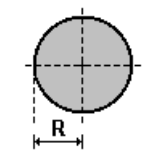
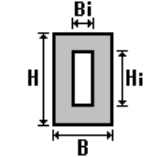
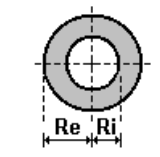
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

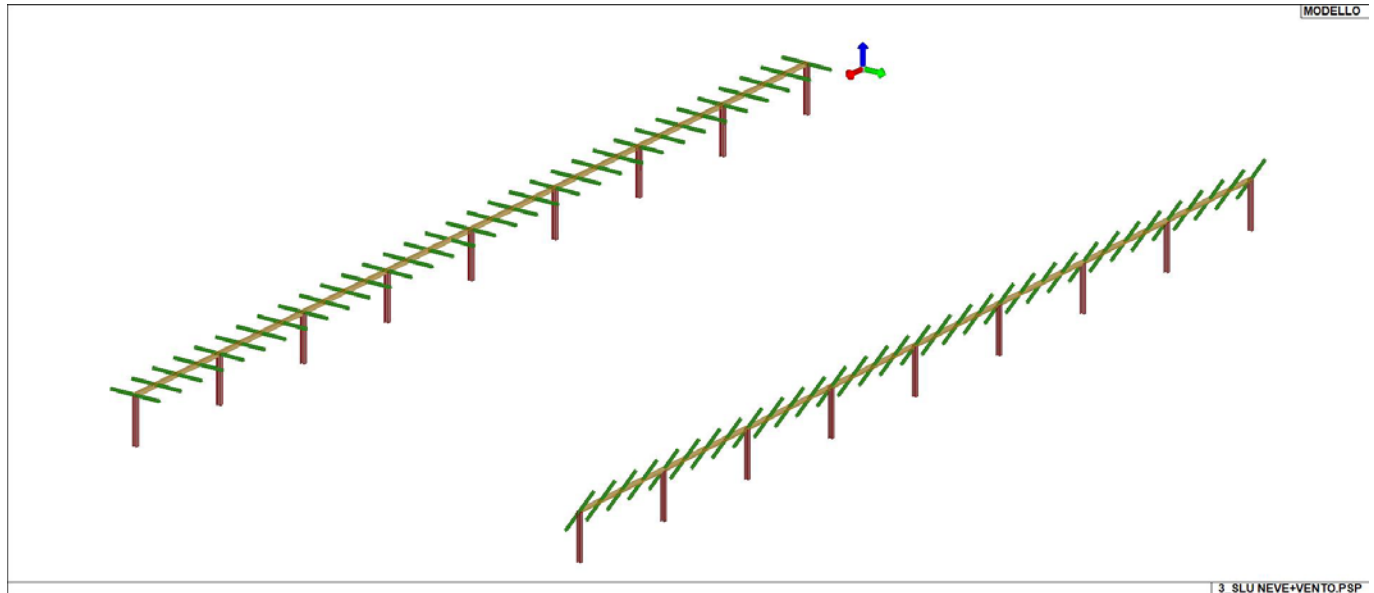
I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali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

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
16	HEA 160	38.80	0.0	0.0	12.20	616.00	1673.00	76.90	220.10	117.60	245.10
17	T.QU 140x140x8	40.04	0.0	0.0	1900.84	1126.77	1126.77	160.97	160.97	194.18	194.18
19	profilo OMG100x60x30x2.5 (Section Maker)	7.57	0.0	0.0	0.16	70.55	102.73	12.27	20.55	21.78	25.04



13_MOD_SEZIONI

MODELLAZIONE STRUTTURA: NODI

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:

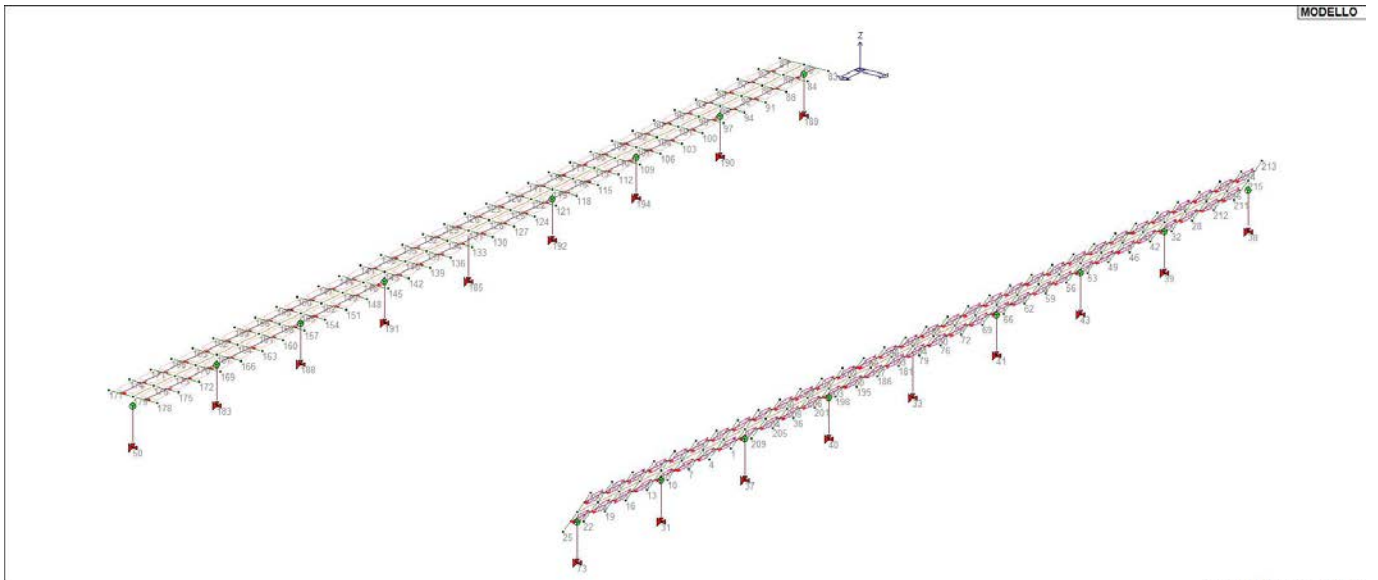
Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, 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

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	3620.0	2046.9	109.9	2	3620.0	2173.1	290.1	3	3620.0	2110.0	200.0
4	3750.0	2046.9	109.9	5	3750.0	2173.1	290.1	6	3750.0	2110.0	200.0
7	3880.0	2046.9	109.9	8	3880.0	2173.1	290.1	9	3880.0	2110.0	200.0
10	4010.0	2046.9	109.9	11	4010.0	2173.1	290.1	12	4010.0	2110.0	200.0
13	4140.0	2046.9	109.9	14	4140.0	2173.1	290.1	15	4140.0	2110.0	200.0
16	4270.0	2046.9	109.9	17	4270.0	2173.1	290.1	18	4270.0	2110.0	200.0
19	4400.0	2046.9	109.9	20	4400.0	2173.1	290.1	21	4400.0	2110.0	200.0
22	4530.0	2046.9	109.9	23	4530.0	2173.1	290.1	24	4530.0	2110.0	200.0
25	4660.0	2046.9	109.9	26	4660.0	2173.1	290.1	27	4660.0	2110.0	200.0
28	760.0	2046.9	109.9	29	760.0	2173.1	290.1	30	760.0	2110.0	200.0
32	890.0	2046.9	109.9	34	890.0	2173.1	290.1	35	890.0	2110.0	200.0
36	3230.0	2046.9	109.9	42	1020.0	2046.9	109.9	44	1020.0	2173.1	290.1
45	1020.0	2110.0	200.0	46	1150.0	2046.9	109.9	47	1150.0	2173.1	290.1
48	1150.0	2110.0	200.0	49	1280.0	2046.9	109.9	51	1280.0	2173.1	290.1
52	1280.0	2110.0	200.0	53	1410.0	2046.9	109.9	54	1410.0	2173.1	290.1
55	1410.0	2110.0	200.0	56	1540.0	2046.9	109.9	57	1540.0	2173.1	290.1
58	1540.0	2110.0	200.0	59	1670.0	2046.9	109.9	60	1670.0	2173.1	290.1
61	1670.0	2110.0	200.0	62	1800.0	2046.9	109.9	63	1800.0	2173.1	290.1
64	1800.0	2110.0	200.0	65	3230.0	2173.1	290.1	66	1930.0	2046.9	109.9
67	1930.0	2173.1	290.1	68	1930.0	2110.0	200.0	69	2060.0	2046.9	109.9
70	2060.0	2173.1	290.1	71	2060.0	2110.0	200.0	72	2190.0	2046.9	109.9
74	2190.0	2173.1	290.1	75	2190.0	2110.0	200.0	76	2320.0	2046.9	109.9
77	2320.0	2173.1	290.1	78	2320.0	2110.0	200.0	79	2450.0	2046.9	109.9
80	2450.0	2173.1	290.1	81	500.0	0.0	200.0	82	630.0	0.0	200.0
83	500.0	220.0	200.0	84	630.0	220.0	200.0	85	500.0	110.0	200.0
86	630.0	110.0	200.0	87	760.0	0.0	200.0	88	760.0	220.0	200.0
89	760.0	110.0	200.0	90	890.0	0.0	200.0	91	890.0	220.0	200.0
92	890.0	110.0	200.0	93	1020.0	0.0	200.0	94	1020.0	220.0	200.0
95	1020.0	110.0	200.0	96	1150.0	0.0	200.0	97	1150.0	220.0	200.0
98	1150.0	110.0	200.0	99	1280.0	0.0	200.0	100	1280.0	220.0	200.0
101	1280.0	110.0	200.0	102	1410.0	0.0	200.0	103	1410.0	220.0	200.0
104	1410.0	110.0	200.0	105	1540.0	0.0	200.0	106	1540.0	220.0	200.0
107	1540.0	110.0	200.0	108	1670.0	0.0	200.0	109	1670.0	220.0	200.0
110	1670.0	110.0	200.0	111	1800.0	0.0	200.0	112	1800.0	220.0	200.0
113	1800.0	110.0	200.0	114	1930.0	0.0	200.0	115	1930.0	220.0	200.0
116	1930.0	110.0	200.0	117	2060.0	0.0	200.0	118	2060.0	220.0	200.0
119	2060.0	110.0	200.0	120	2190.0	0.0	200.0	121	2190.0	220.0	200.0
122	2190.0	110.0	200.0	123	2320.0	0.0	200.0	124	2320.0	220.0	200.0
125	2320.0	110.0	200.0	126	2450.0	0.0	200.0	127	2450.0	220.0	200.0
128	2450.0	110.0	200.0	129	2580.0	0.0	200.0	130	2580.0	220.0	200.0
131	2580.0	110.0	200.0	132	2710.0	0.0	200.0	133	2710.0	220.0	200.0
134	2710.0	110.0	200.0	135	2840.0	0.0	200.0	136	2840.0	220.0	200.0
137	2840.0	110.0	200.0	138	2970.0	0.0	200.0	139	2970.0	220.0	200.0
140	2970.0	110.0	200.0	141	3100.0	0.0	200.0	142	3100.0	220.0	200.0
143	3100.0	110.0	200.0	144	3230.0	0.0	200.0	145	3230.0	220.0	200.0
146	3230.0	110.0	200.0	147	3360.0	0.0	200.0	148	3360.0	220.0	200.0
149	3360.0	110.0	200.0	150	3490.0	0.0	200.0	151	3490.0	220.0	200.0
152	3490.0	110.0	200.0	153	3620.0	0.0	200.0	154	3620.0	220.0	200.0
155	3620.0	110.0	200.0	156	3750.0	0.0	200.0	157	3750.0	220.0	200.0
158	3750.0	110.0	200.0	159	3880.0	0.0	200.0	160	3880.0	220.0	200.0
161	3880.0	110.0	200.0	162	4010.0	0.0	200.0	163	4010.0	220.0	200.0
164	4010.0	110.0	200.0	165	4140.0	0.0	200.0	166	4140.0	220.0	200.0
167	4140.0	110.0	200.0	168	4270.0	0.0	200.0	169	4270.0	220.0	200.0
170	4270.0	110.0	200.0	171	4400.0	0.0	200.0	172	4400.0	220.0	200.0
173	4400.0	110.0	200.0	174	4530.0	0.0	200.0	175	4530.0	220.0	200.0
176	4530.0	110.0	200.0	177	4660.0	0.0	200.0	178	4660.0	220.0	200.0
179	4660.0	110.0	200.0	180	2450.0	2110.0	200.0	181	2580.0	2046.9	109.9
182	2580.0	2173.1	290.1	184	2580.0	2110.0	200.0	186	2710.0	2046.9	109.9
187	2710.0	2173.1	290.1	193	2710.0	2110.0	200.0	195	2840.0	2046.9	109.9
196	2840.0	2173.1	290.1	197	2840.0	2110.0	200.0	198	2970.0	2046.9	109.9
199	2970.0	2173.1	290.1	200	2970.0	2110.0	200.0	201	3100.0	2046.9	109.9
202	3100.0	2173.1	290.1	203	3100.0	2110.0	200.0	204	3490.0	2110.0	200.0
205	3360.0	2046.9	109.9	206	3230.0	2110.0	200.0	207	3360.0	2173.1	290.1
208	3360.0	2110.0	200.0	209	3490.0	2046.9	109.9	210	3490.0	2173.1	290.1
211	500.0	2046.9	109.9	212	630.0	2046.9	109.9	213	500.0	2173.1	290.1
214	630.0	2173.1	290.1	215	500.0	2110.0	200.0	216	630.0	2110.0	200.0

Nodo	X cm	Y cm	Z cm	Note	Rig. TX daN/cm	Rig. TY daN/cm	Rig. TZ daN/cm	Rig. RX daN cm/rad	Rig. RY daN cm/rad	Rig. RZ daN cm/rad
31	4140.0	2110.0	0.0	v=111111						
33	2580.0	2110.0	0.0	v=111111						
37	3620.0	2110.0	0.0	v=111111						
38	500.0	2110.0	0.0	v=111111						
39	1020.0	2110.0	0.0	v=111111						
40	3100.0	2110.0	0.0	v=111111						
41	2060.0	2110.0	0.0	v=111111						
43	1540.0	2110.0	0.0	v=111111						
50	4660.0	110.0	0.0	v=111111						
73	4660.0	2110.0	0.0	v=111111						
183	4140.0	110.0	0.0	v=111111						
185	2580.0	110.0	0.0	v=111111						
188	3620.0	110.0	0.0	v=111111						
189	500.0	110.0	0.0	v=111111						
190	1020.0	110.0	0.0	v=111111						
191	3100.0	110.0	0.0	v=111111						
192	2060.0	110.0	0.0	v=111111						
194	1540.0	110.0	0.0	v=111111						



14_MOD_NUMERAZIONE_NODI

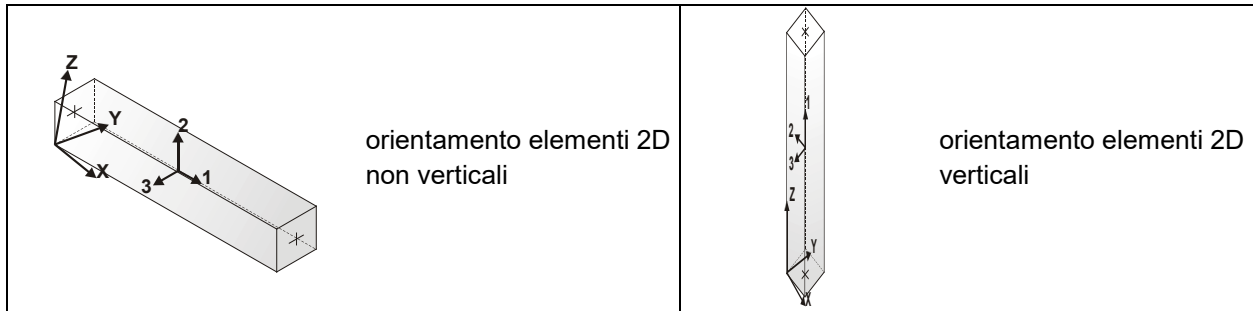
MODELLAZIONE STRUTTURALE: ELEMENTI TRAVE

TABELLA DATI TRAVI

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

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

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



In particolare per ogni elemento viene indicato in tabella:

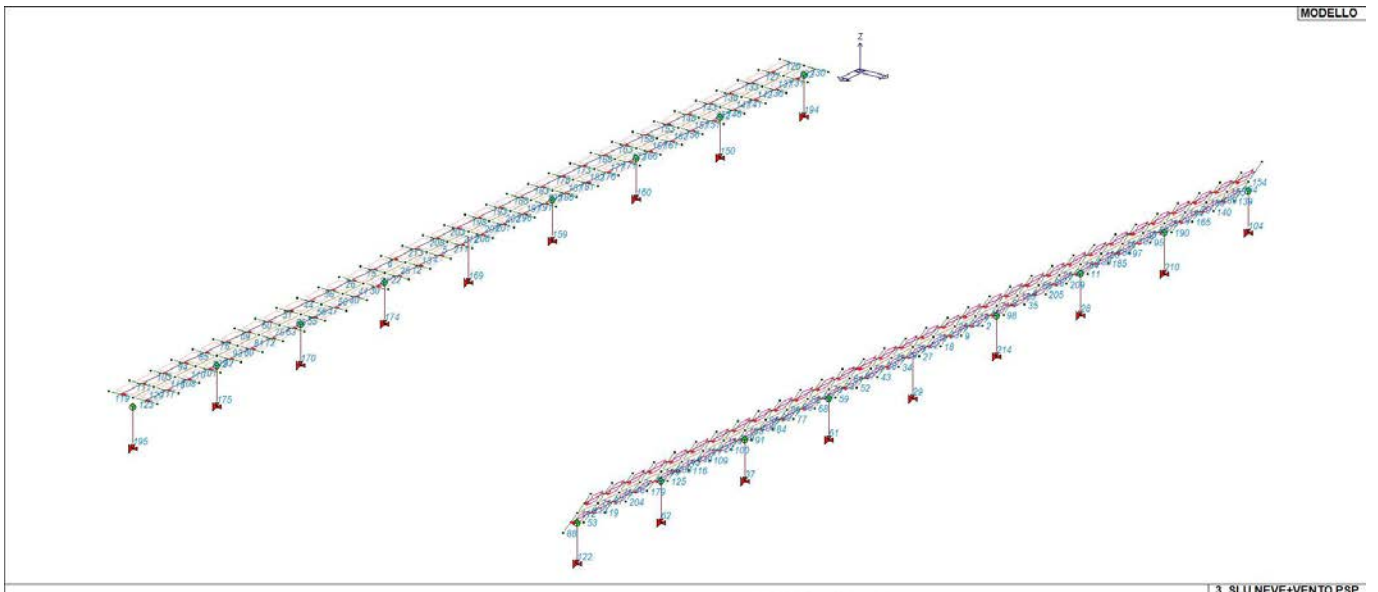
Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione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

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Trave	64	68	13	17	6	55.00				
2	Trave	69	71	12	19	1					
3	Trave	18	17	12	19	1					
4	Trave	137	136	12	19	1					
5	Trave	134	137	13	17	6					
6	Trave	138	140	12	19	1					
7	Trave	71	70	12	19	1					
8	Trave	68	71	13	17	6	55.00				
9	Trave	72	75	12	19	1					
10	Trave	15	18	13	17	6	55.00				
11	Trave	53	55	12	19	1					
12	Trave	140	139	12	19	1					
13	Trave	137	140	13	17	6					
14	Trave	75	74	12	19	1					
15	Trave	141	143	12	19	1					
16	Trave	52	51	12	19	1					
17	Trave	71	75	13	17	6	55.00				
18	Trave	76	78	12	19	1					

19	Trave	19	21	12	19	1		
20	Trave	61	60	12	19	1		
21	Trave	58	61	13	17	6	55.00	
22	Trave	143	142	12	19	1		
23	Trave	78	77	12	19	1		
24	Trave	75	78	13	17	6	55.00	
25	Trave	140	143	13	17	6		
26	Trave	144	146	12	19	1		
27	Trave	79	180	12	19	1		
28	Pilas.	43	58	12	16	1	90.00	000011
29	Pilas.	33	184	12	16	1	90.00	
30	Trave	146	145	12	19	1		
31	Trave	143	146	13	17	6		
32	Trave	180	80	12	19	1		
33	Trave	78	180	13	17	6	55.00	
34	Trave	181	184	12	19	1		
35	Trave	62	64	12	19	1		
36	Trave	147	149	12	19	1		
37	Pilas.	37	3	12	16	1	90.00	000011
38	Trave	48	47	12	19	1		
39	Trave	184	182	12	19	1		
40	Trave	149	148	12	19	1		
41	Trave	146	149	13	17	6		
42	Trave	180	184	13	17	6	55.00	
43	Trave	186	193	12	19	1		
44	Trave	150	152	12	19	1		
45	Trave	21	20	12	19	1		
46	Trave	18	21	13	17	6	55.00	
47	Trave	152	151	12	19	1		
48	Trave	193	187	12	19	1		
49	Trave	184	193	13	17	6	55.00	
50	Trave	149	152	13	17	6		
51	Trave	153	155	12	19	1		
52	Trave	195	197	12	19	1		
53	Trave	22	24	12	19	1		
54	Trave	45	48	13	17	6	55.00	
55	Trave	155	154	12	19	1		
56	Trave	152	155	13	17	6		
57	Trave	197	196	12	19	1		
58	Trave	193	197	13	17	6	55.00	
59	Trave	198	200	12	19	1		
60	Trave	156	158	12	19	1		
61	Pilas.	40	203	12	16	1	90.00	000011
62	Pilas.	31	15	12	16	1	90.00	000011
63	Trave	158	157	12	19	1		
64	Trave	200	199	12	19	1		
65	Trave	155	158	13	17	6		
66	Trave	64	63	12	19	1		
67	Trave	197	200	13	17	6	55.00	
68	Trave	201	203	12	19	1		
69	Trave	159	161	12	19	1		
70	Trave	30	35	13	17	6	55.00	
71	Trave	24	23	12	19	1		
72	Trave	161	160	12	19	1		
73	Trave	203	202	12	19	1		
74	Trave	200	203	13	17	6	55.00	
75	Trave	158	161	13	17	6		
76	Trave	162	164	12	19	1		
77	Trave	36	206	12	19	1		
78	Trave	45	44	12	19	1		
79	Trave	35	45	13	17	6	55.00	
80	Trave	164	163	12	19	1		
81	Trave	161	164	13	17	6		
82	Trave	206	65	12	19	1		
83	Trave	203	206	13	17	6	55.00	
84	Trave	205	208	12	19	1		
85	Trave	165	167	12	19	1		
86	Trave	61	64	13	17	6	55.00	
87	Trave	21	24	13	17	6	55.00	
88	Trave	25	27	12	19	1		
89	Trave	208	207	12	19	1		
90	Trave	206	208	13	17	6	55.00	
91	Trave	209	204	12	19	1		
92	Trave	167	166	12	19	1		
93	Trave	164	167	13	17	6		
94	Trave	168	170	12	19	1		
95	Trave	42	45	12	19	1		

96	Trave	204	210	12	19	1		
97	Trave	46	48	12	19	1		
98	Trave	66	68	12	19	1		
99	Trave	208	204	13	17	6	55.00	
100	Trave	1	3	12	19	1		
101	Trave	170	169	12	19	1		
102	Trave	167	170	13	17	6		
103	Trave	171	173	12	19	1		
104	Pilas.	38	215	12	16	1	90.00	000011
105	Trave	3	2	12	19	1		
106	Trave	204	3	13	17	6	55.00	
107	Trave	48	52	13	17	6	55.00	
108	Trave	173	172	12	19	1		
109	Trave	4	6	12	19	1		
110	Trave	170	173	13	17	6		
111	Trave	174	176	12	19	1		
112	Trave	27	26	12	19	1		
113	Trave	24	27	13	17	6	55.00	
114	Trave	6	5	12	19	1		
115	Trave	3	6	13	17	6	55.00	
116	Trave	7	9	12	19	1		
117	Trave	176	175	12	19	1		
118	Trave	173	176	13	17	6		
119	Trave	177	179	12	19	1		
120	Trave	55	54	12	19	1		
121	Trave	9	8	12	19	1		
122	Pilas.	73	27	12	16	1	90.00	000011
123	Trave	179	178	12	19	1		
124	Trave	6	9	13	17	6	55.00	
125	Trave	10	12	12	19	1		
126	Trave	81	85	12	19	1		
127	Trave	82	86	12	19	1		
128	Trave	68	67	12	19	1		
129	Trave	176	179	13	17	6		
130	Trave	85	83	12	19	1		
131	Trave	86	84	12	19	1		
132	Trave	85	86	13	17	6		
133	Trave	87	89	12	19	1		
134	Trave	58	57	12	19	1		
135	Trave	55	58	13	17	6	55.00	
136	Trave	89	88	12	19	1		
137	Trave	86	89	13	17	6		
138	Trave	90	92	12	19	1		
139	Trave	211	215	12	19	1		
140	Trave	212	216	12	19	1		
141	Trave	92	91	12	19	1		
142	Trave	89	92	13	17	6		
143	Trave	93	95	12	19	1		
144	Trave	35	34	12	19	1		
145	Trave	12	11	12	19	1		
146	Trave	95	94	12	19	1		
147	Trave	92	95	13	17	6		
148	Trave	96	98	12	19	1		
149	Trave	9	12	13	17	6	55.00	
150	Pilas.	190	95	12	16	1	90.00	000011
151	Trave	98	97	12	19	1		
152	Trave	95	98	13	17	6		
153	Trave	99	101	12	19	1		
154	Trave	215	213	12	19	1		
155	Trave	216	214	12	19	1		
156	Trave	101	100	12	19	1		
157	Trave	98	101	13	17	6		
158	Trave	102	104	12	19	1		
159	Pilas.	192	119	12	16	1	90.00	000011
160	Pilas.	194	107	12	16	1	90.00	000011
161	Trave	104	103	12	19	1		
162	Trave	101	104	13	17	6		
163	Trave	105	107	12	19	1		
164	Trave	215	216	13	17	6	55.00	
165	Trave	28	30	12	19	1		
166	Trave	107	106	12	19	1		
167	Trave	104	107	13	17	6		
168	Trave	108	110	12	19	1		
169	Pilas.	185	131	12	16	1	90.00	
170	Pilas.	188	155	12	16	1	90.00	000011
171	Trave	110	109	12	19	1		
172	Trave	107	110	13	17	6		

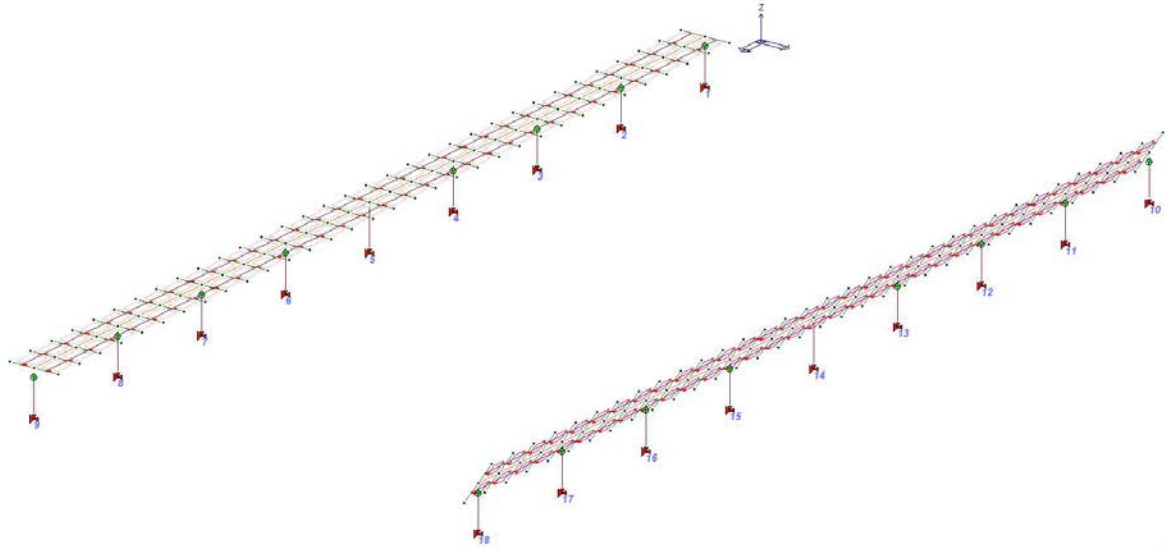
173	Trave	111	113	12	19	1		
174	Pilas.	191	143	12	16	1	90.00	000011
175	Pilas.	183	167	12	16	1	90.00	000011
176	Trave	113	112	12	19	1		
177	Trave	110	113	13	17	6		
178	Trave	114	116	12	19	1		
179	Trave	13	15	12	19	1		
180	Trave	30	29	12	19	1		
181	Trave	116	115	12	19	1		
182	Trave	113	116	13	17	6		
183	Trave	117	119	12	19	1		
184	Trave	52	55	13	17	6	55.00	
185	Trave	49	52	12	19	1		
186	Trave	119	118	12	19	1		
187	Trave	116	119	13	17	6		
188	Trave	120	122	12	19	1		
189	Trave	216	30	13	17	6	55.00	
190	Trave	32	35	12	19	1		
191	Trave	122	121	12	19	1		
192	Trave	119	122	13	17	6		
193	Trave	123	125	12	19	1		
194	Pilas.	189	85	12	16	1	90.00	000011
195	Pilas.	50	179	12	16	1	90.00	000011
196	Trave	125	124	12	19	1		
197	Trave	122	125	13	17	6		
198	Trave	126	128	12	19	1		
199	Trave	15	14	12	19	1		
200	Trave	12	15	13	17	6	55.00	
201	Trave	128	127	12	19	1		
202	Trave	125	128	13	17	6		
203	Trave	129	131	12	19	1		
204	Trave	16	18	12	19	1		
205	Trave	59	61	12	19	1		
206	Trave	131	130	12	19	1		
207	Trave	128	131	13	17	6		
208	Trave	132	134	12	19	1		
209	Trave	56	58	12	19	1		
210	Pilas.	39	45	12	16	1	90.00	000011
211	Trave	134	133	12	19	1		
212	Trave	131	134	13	17	6		
213	Trave	135	137	12	19	1		
214	Pilas.	41	71	12	16	1	90.00	000011



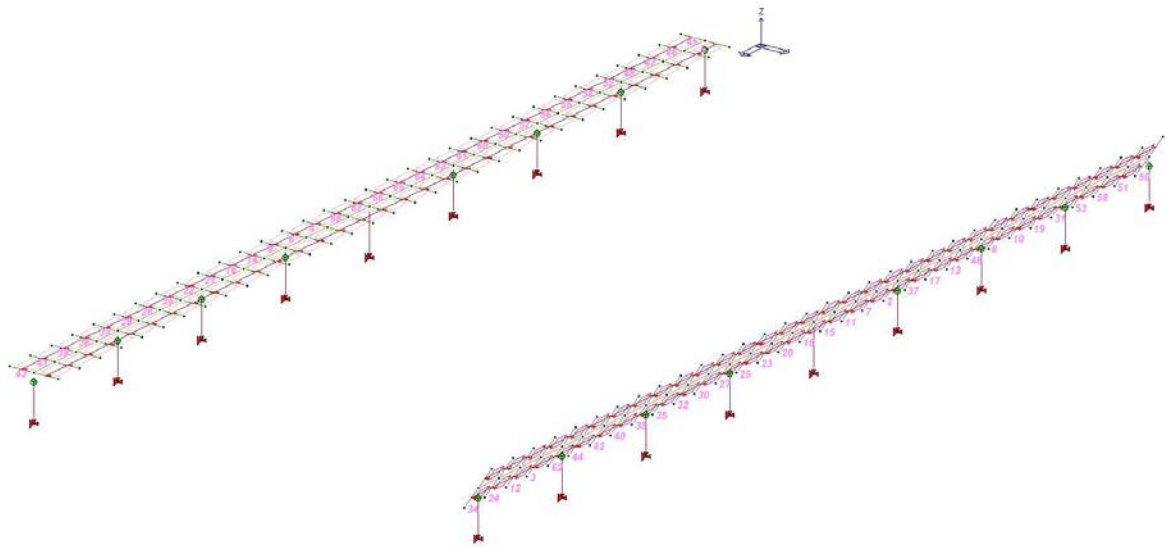
MODELLO

3_SLU NEVE+VENTO.PSP

15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_PILASTRATE



15_MOD_NUMERAZIONE_D2_TRAVATE

MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

LEGENDA TABELLA DATI SOLAI-PANNELLI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello.

Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.

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

L'elemento balcone è derivato dall'elemento solaio.

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

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

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico Variab. Carico variabile generico Var. rid. Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...) Neve Carico di neve
G1k	carico permanente (comprensivo del peso proprio)
G2k	carico permanente non strutturale e non compiutamente definito
Qk	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore raro
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore frequente
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore quasi permanente
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: per la definizione delle masse sismiche
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

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

Elem	numero dell'elemento
Tipo	codice di comportamento S elemento utilizzato solo per scarico C elemento utilizzato per scarico e per modellazione piano rigido P elemento utilizzato come pannello M scarico monodirezionale B scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
Gk	carico permanente solaio (comprensivo del peso proprio)
Qk	carico variabile solaio
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

Nel caso in cui si sia proceduto alla progettazione dei solai con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale); nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite vengono riportati il rapporto x/d e le verifiche per sollecitazioni proporzionali nonché le verifiche in esercizio.

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

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

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 17.01.2018 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica confronta i momenti sollecitanti indotti dal sisma con i momenti resistenti, secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinematismo a seguito della formazione di tre cerniere plastiche sulla tamponatura (rif. Ufficio di Vigilanza sulle Costruzioni, Provincia di Terni).

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):

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

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

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

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

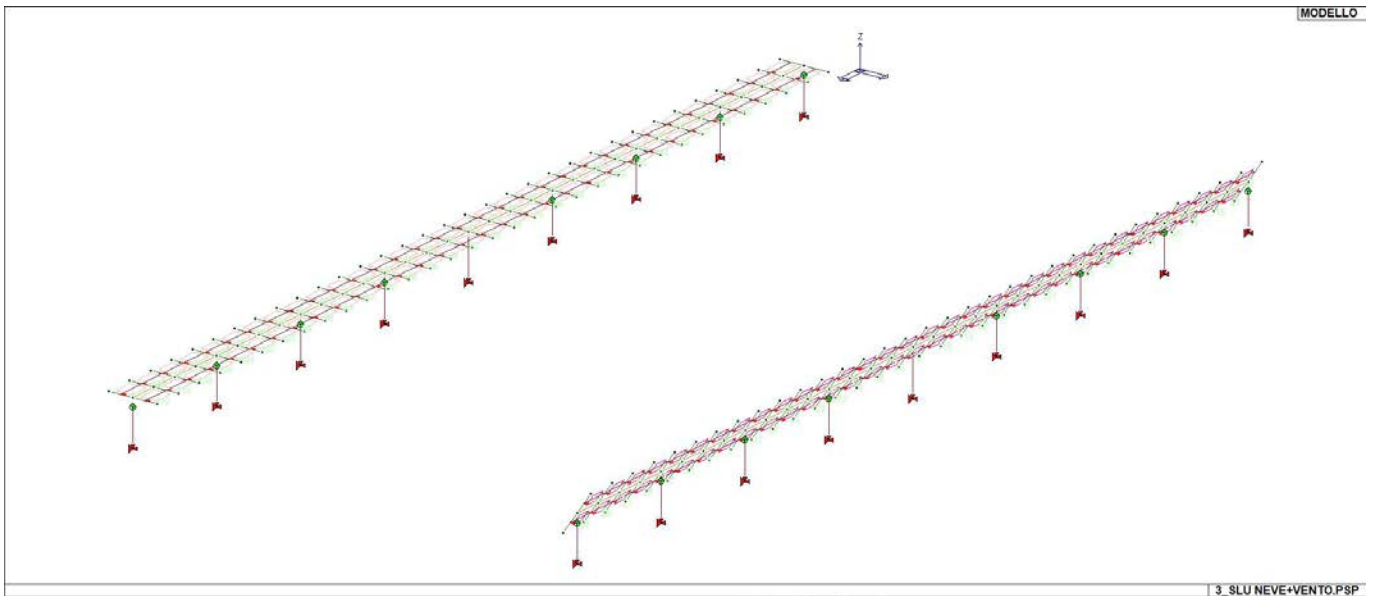
Elem.	Numero identificativo dell'elemento
Stato	Codice di verifica
Ver. c.c.	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. c.cin.	Verifica nell'ipotesi di cinematico con formazione di cerniere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

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/cm2	daN/cm2	daN/cm2							
8	Neve	2.00e-03	1.00e-03	1.70e-02		1.00	0.50	0.20	0.0	0.0	1.00
9	Neve	2.00e-03	1.00e-03	5.00e-03		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	82	86	85	81	
2	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	86	84	83	85	
3	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	4	6	3	1	
4	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	6	5	2	3	
5	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	181	184	180	79	
6	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	184	182	80	180	
7	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	87	89	86	82	
8	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	89	88	84	86	
9	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	7	9	6	4	
10	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	9	8	5	6	
11	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	10	12	9	7	
12	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	12	11	8	9	
13	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	90	92	89	87	
14	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	92	91	88	89	
15	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	49	52	48	46	
16	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	52	51	47	48	
17	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	13	15	12	10	
18	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	15	14	11	12	
19	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	93	95	92	90	
20	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	95	94	91	92	
21	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	16	18	15	13	
22	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	18	17	14	15	
23	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	53	55	52	49	
24	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	55	54	51	52	
25	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	96	98	95	93	
26	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	98	97	94	95	
27	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	19	21	18	16	
28	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	21	20	17	18	
29	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	22	24	21	19	
30	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	24	23	20	21	
31	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	99	101	98	96	
32	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	101	100	97	98	
33	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	66	68	64	62	
34	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	68	67	63	64	
35	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	25	27	24	22	
36	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	27	26	23	24	
37	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	102	104	101	99	

38	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	104	103	100	101
39	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	32	35	30	28
40	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	35	34	29	30
41	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	212	216	215	211
42	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	216	214	213	215
43	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	105	107	104	102
44	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	107	106	103	104
45	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	186	193	184	181
46	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	193	187	182	184
47	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	69	71	68	66
48	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	71	70	67	68
49	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	108	110	107	105
50	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	110	109	106	107
51	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	56	58	55	53
52	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	58	57	54	55
53	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	111	113	110	108
54	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	113	112	109	110
55	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	205	208	206	36
56	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	208	207	65	206
57	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	114	116	113	111
58	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	116	115	112	113
59	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	195	197	193	186
60	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	197	196	187	193
61	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	117	119	116	114
62	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	119	118	115	116
63	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	72	75	71	69
64	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	75	74	70	71
65	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	120	122	119	117
66	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	122	121	118	119
67	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	209	204	208	205
68	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	204	210	207	208
69	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	123	125	122	120
70	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	125	124	121	122
71	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	46	48	45	42
72	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	48	47	44	45
73	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	126	128	125	123
74	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	128	127	124	125
75	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	59	61	58	56
76	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	61	60	57	58
77	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	129	131	128	126
78	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	131	130	127	128
79	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	198	200	197	195
80	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	200	199	196	197
81	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	132	134	131	129
82	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	134	133	130	131
83	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	135	137	134	132
84	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	137	136	133	134
85	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	138	140	137	135
86	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	140	139	136	137
87	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	141	143	140	138
88	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	143	142	139	140
89	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	144	146	143	141
90	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	146	145	142	143
91	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	147	149	146	144
92	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	149	148	145	146
93	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	150	152	149	147
94	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	152	151	148	149
95	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	153	155	152	150
96	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	155	154	151	152
97	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	156	158	155	153
98	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	158	157	154	155
99	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	159	161	158	156
100	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	161	160	157	158
101	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	162	164	161	159
102	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	164	163	160	161
103	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	165	167	164	162
104	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	167	166	163	164
105	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	168	170	167	165
106	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	170	169	166	167
107	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	171	173	170	168
108	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	173	172	169	170
109	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	174	176	173	171
110	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	176	175	172	173
111	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	177	179	176	174
112	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	179	178	175	176
113	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	76	78	75	72
114	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	78	77	74	75

115	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	28	30	216	212
116	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	30	29	214	216
117	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	1	3	204	209
118	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	3	2	210	204
119	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	79	180	78	76
120	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	180	80	77	78
121	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	62	64	61	59
122	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	64	63	60	61
123	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	201	203	200	198
124	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	203	202	199	200
125	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	42	45	35	32
126	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	45	44	34	35
127	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	36	206	203	201
128	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	206	65	202	203



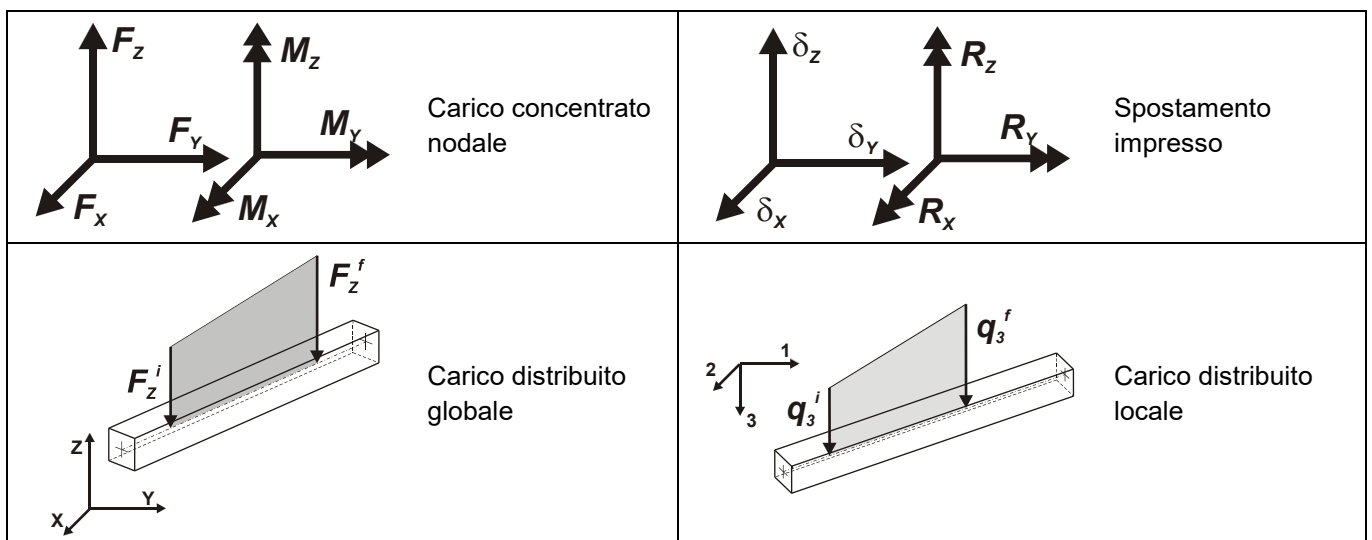
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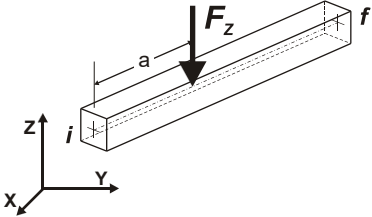
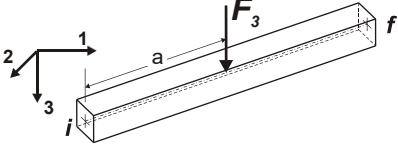
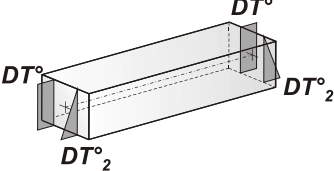
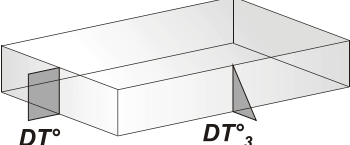
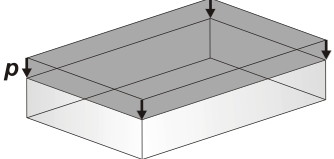
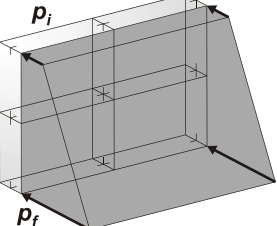
MODELLAZIONE DELLE AZIONI

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 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 ($f_x, f_y, f_z, m_x, m_y, m_z$, ascissa di inizio carico) 7 dati ($f_x, f_y, f_z, m_x, m_y, m_z$, ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati ($f_1, f_2, f_3, m_1, m_2, m_3$, ascissa di inizio carico) 7 dati ($f_1, f_2, f_3, m_1, m_2, m_3$, ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati ($F_x, F_y, F_z, M_x, M_y, M_z$, ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati ($F_1, F_2, F_3, M_1, M_2, M_3$, 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)



 <p>Carico concentrato globale</p>	 <p>Carico concentrato locale</p>
 <p>Carico termico 2D</p>	 <p>Carico termico 3D</p>
 <p>Carico pressione uniforme</p>	 <p>Carico pressione variabile</p>

Tipo carico distribuito locale su trave

Id	Tipo	Pos.	f1	f2	f3	m1	m2	m3
		cm	daN/cm	daN/cm	daN/cm	daN	daN	daN
21	qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20	0.0	0.0	-1.20	0.0	0.0	0.0	0.0
		0.0	0.0	-1.20	0.0	0.0	0.0	0.0
22	qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50	0.0	0.0	1.50	0.0	0.0	0.0	0.0
		0.0	0.0	1.50	0.0	0.0	0.0	0.0

SCHEMATIZZAZIONE DEI CASI DI CARICO

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:

	Sigla	Tipo	Descrizione
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:

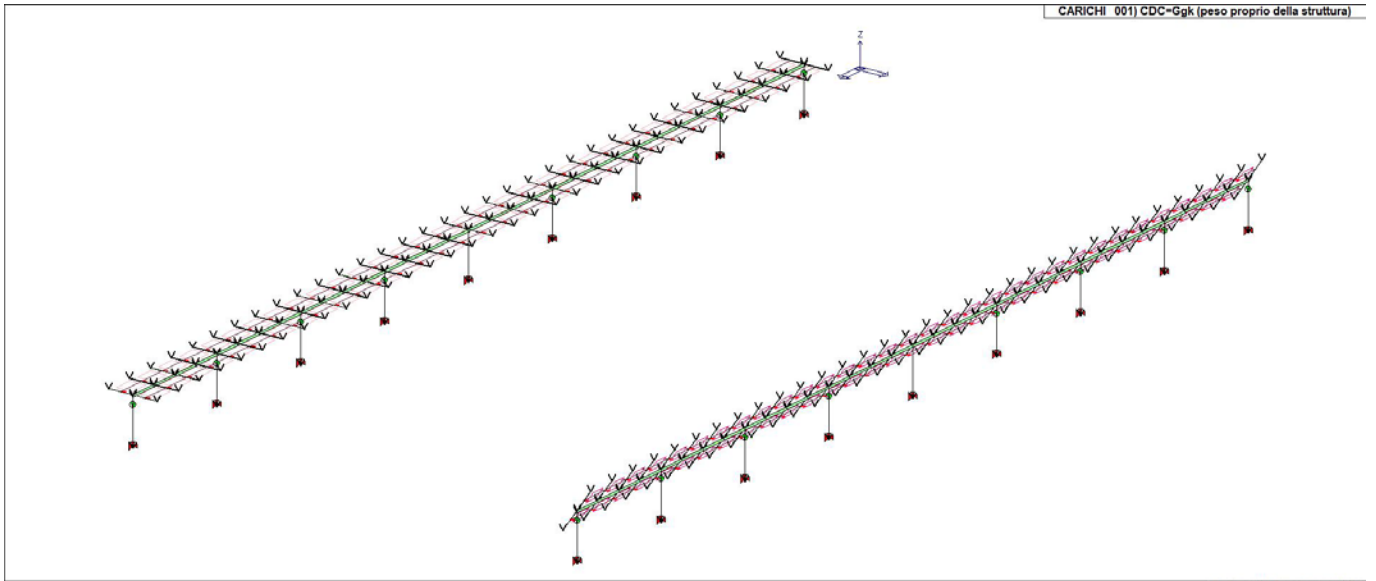
Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).

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.

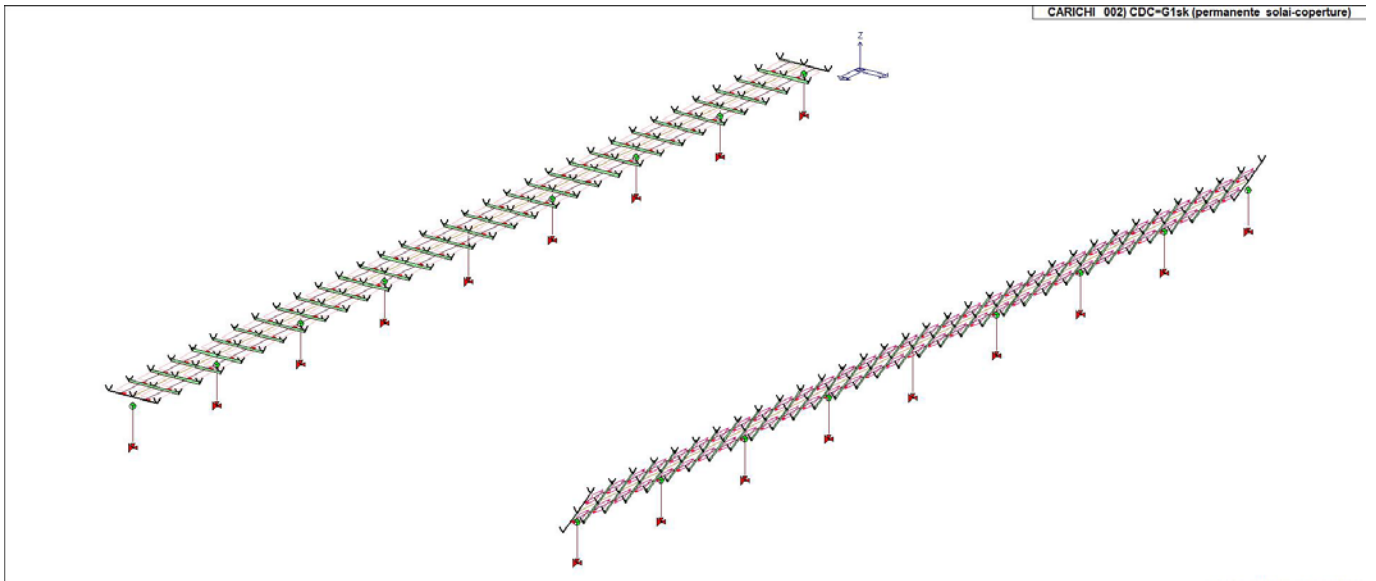
Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione 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	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qnk	CDC=Qnk (carico da neve)	
5	Qk	CDC=Qkv+	Azioni applicate:
			D2 :da 2 a 4 Azione : qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20
			D2 :da 6 a 7 Azione : qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20
			D2 : 9 Azione : qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20
			D2 :da 11 a 12 Azione : qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20
			D2 :da 14 a 16 Azione : qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20
			D2 :da 18 a 20 Azione : qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20
			D2 :da 22 a 23 Azione : qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20
			D2 :da 26 a 27 Azione : qv+ (vento in pressione)-DL:F2i=-1.20 F2f=-1.20

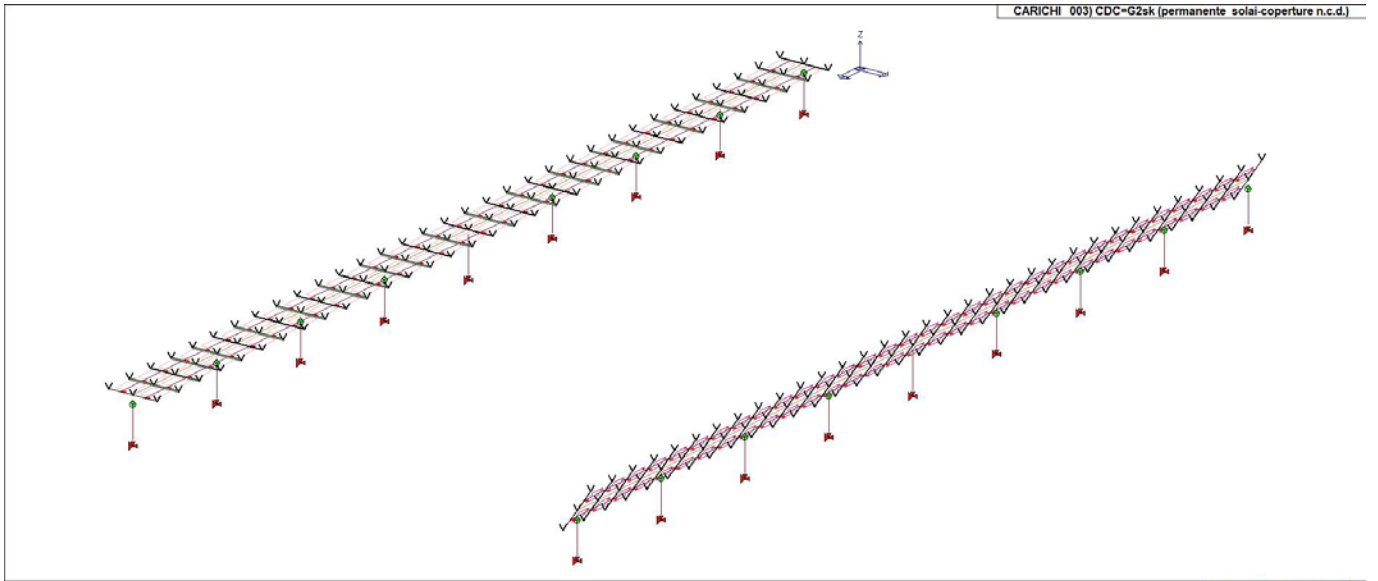
CDC	Tipo	Sigla Id	Note
			D2 :da 47 a 48 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 51 a 53 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 55 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 57 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 59 a 60 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 63 a 64 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 66 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 68 a 69 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 71 a 73 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 76 a 78 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 80 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 82 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 84 a 85 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 88 a 89 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 91 a 92 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 94 a 98 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 100 a 101 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 103 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 105 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 108 a 109 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 111 a 112 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 114 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 116 a 117 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 119 a 121 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 123 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 125 a 128 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 130 a 131 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 133 a 134 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 136 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 138 a 141 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 143 a 146 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 148 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 151 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 153 a 156 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 158 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 161 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 163 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 165 a 166 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 168 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 171 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 173 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 176 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 178 a 181 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 183 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 185 a 186 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 188 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 190 a 191 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 193 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 196 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 198 a 199 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 201 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 203 a 206 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 :da 208 a 209 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 211 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50
			D2 : 213 Azione : qv- (vento in depressione)-DL:F2i=1.50 F2f=1.50



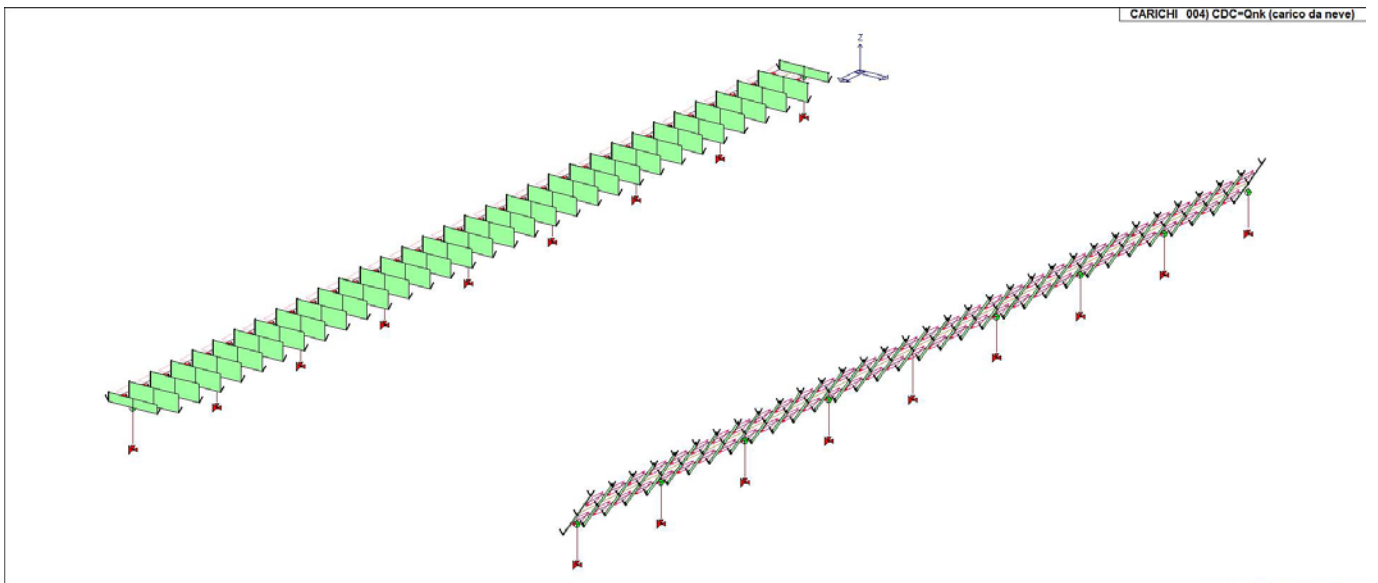
22_CDC_001_CDC=Ggk (peso proprio della struttura)



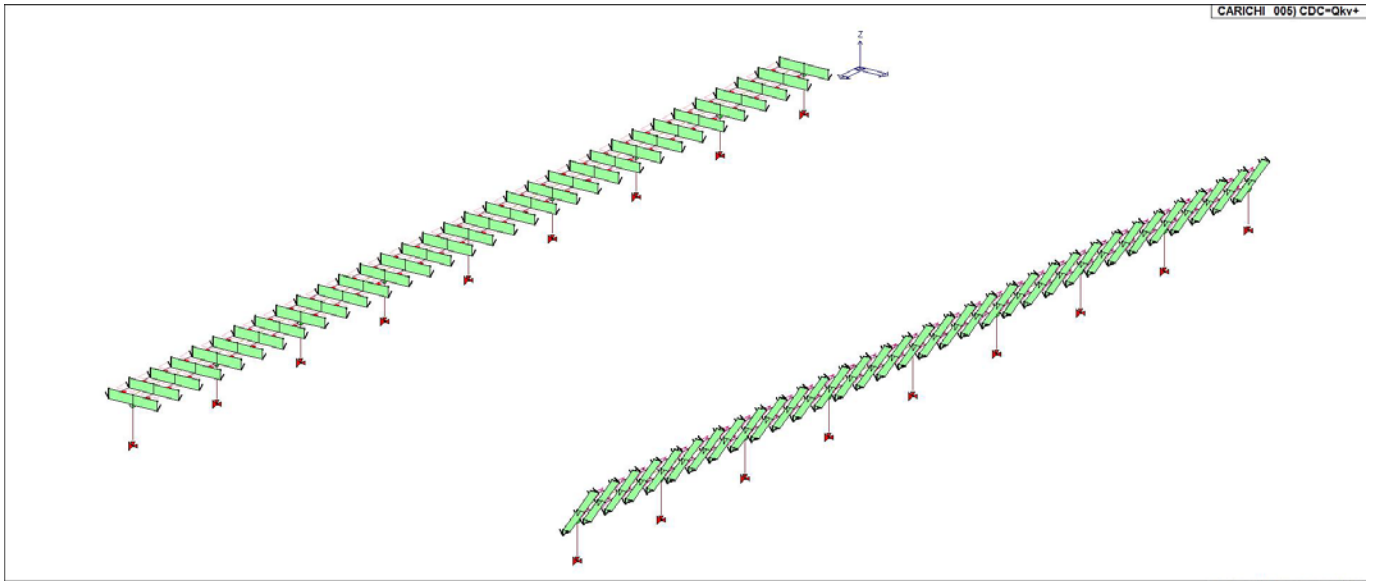
22_CDC_002_CDC=G1sk (permanente solai-coperture)



22_CDC_003_CDC=G2sk (permanente solai-coperture n.c.d.)

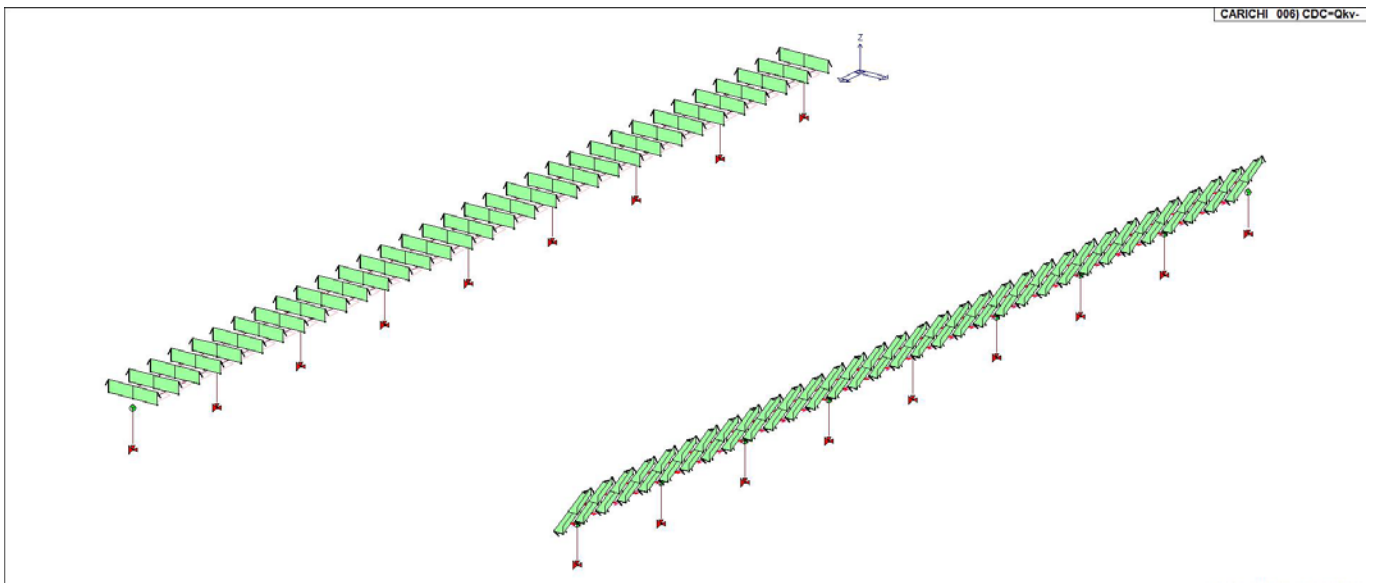


22_CDC_004_CDC=Qnk (carico da neve)



22_CDC_005_CDC=Qkv+

3_SLU NEVE+VENTO.PSP



22_CDC_006_CDC=Qkv-

3_SLU NEVE+VENTO.PSP

DEFINIZIONE DELLE COMBINAZIONI

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 2.5.1

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 $\leq 30kN$)	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 2.6.1

		Coefficiente γf	EQU	A1	A2
Carichi permanenti	Favorevoli	$\gamma G1$	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	$\gamma G2$	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γQi	0,0	0,0	0,0
	Sfavorevoli		1,5	1,5	1,3

RISULTATI NODALI

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 cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	4	-6.12e-03	-0.52	-0.49	7.28e-03	6.83e-05	0.0
1	7	0.03	0.47	0.35	-5.01e-03	-3.52e-04	0.0
1	8	-2.05e-03	-0.51	-0.50	7.45e-03	2.32e-05	0.0
1	12	-3.07e-03	-0.35	-0.33	4.88e-03	3.44e-05	0.0
1	15	0.02	0.32	0.23	-3.32e-03	-2.46e-04	0.0
1	16	-3.65e-04	-0.34	-0.33	4.99e-03	4.30e-06	0.0
1	19	0.01	0.08	0.04	-4.73e-04	-1.27e-04	0.0
1	20	6.92e-03	-0.06	-0.08	1.19e-03	-7.67e-05	0.0
1	21	9.41e-03	0.02	-0.01	2.65e-04	-1.04e-04	0.0
2	4	6.12e-03	-2.19	0.68	0.01	6.83e-05	0.0
2	7	-0.03	1.81	-0.58	-9.77e-03	-3.52e-04	0.0
2	12	3.07e-03	-1.46	0.45	7.44e-03	3.44e-05	0.0
2	15	-0.02	1.21	-0.39	-6.54e-03	-2.46e-04	0.0
2	19	-0.01	0.25	-0.09	-1.50e-03	-1.27e-04	0.0
2	20	-6.92e-03	-0.28	0.08	1.27e-03	-7.67e-05	0.0
2	21	-9.41e-03	0.02	-0.01	-2.65e-04	-1.04e-04	0.0
3	7	0.0	0.98	-4.61e-03	-7.39e-03	-3.52e-04	0.0
3	8	0.0	-1.22	2.36e-04	9.24e-03	2.32e-05	0.0
3	15	0.0	0.65	-3.23e-03	-4.93e-03	-2.46e-04	0.0
3	16	0.0	-0.82	7.03e-06	6.16e-03	4.30e-06	0.0
3	19	0.0	0.13	-1.69e-03	-9.85e-04	-1.27e-04	0.0
3	20	0.0	-0.16	-1.04e-03	1.23e-03	-7.67e-05	0.0
3	21	0.0	0.0	-1.40e-03	0.0	-1.04e-04	0.0
4	4	-0.07	-0.67	-0.47	7.28e-03	-2.52e-04	-1.50e-03
4	6	-0.09	-0.37	-0.35	4.84e-03	3.57e-04	-8.99e-04
4	8	-0.09	-0.66	-0.49	7.45e-03	-9.36e-05	-1.50e-03
4	12	-0.05	-0.44	-0.32	4.88e-03	-1.30e-04	-9.99e-04
4	14	-0.06	-0.24	-0.24	3.25e-03	2.76e-04	-6.00e-04
4	16	-0.06	-0.44	-0.33	4.99e-03	-2.46e-05	-9.99e-04
4	19	-0.03	0.09	-2.23e-03	-4.73e-04	4.35e-04	1.60e-04
4	20	-0.04	-0.07	-0.10	1.19e-03	2.60e-04	-2.00e-04
4	21	-0.03	0.02	-0.05	2.65e-04	3.57e-04	0.0
5	4	0.07	-2.33	0.70	0.01	-2.52e-04	-1.50e-03
5	6	0.09	-1.37	0.35	6.24e-03	3.57e-04	-8.99e-04
5	12	0.05	-1.55	0.46	7.44e-03	-1.30e-04	-9.99e-04
5	14	0.06	-0.91	0.23	4.14e-03	2.76e-04	-6.00e-04
5	15	0.03	1.28	-0.47	-6.54e-03	8.53e-04	7.99e-04
5	19	0.03	0.27	-0.13	-1.50e-03	4.35e-04	1.60e-04
5	20	0.04	-0.30	0.06	1.27e-03	2.60e-04	-2.00e-04
5	21	0.03	0.02	-0.05	-2.65e-04	3.57e-04	0.0
6	7	0.0	1.09	-0.11	-7.39e-03	1.22e-03	1.20e-03
6	8	0.0	-1.37	8.62e-03	9.24e-03	-9.36e-05	-1.50e-03
6	15	0.0	0.73	-0.08	-4.93e-03	8.53e-04	7.99e-04
6	16	0.0	-0.91	2.27e-03	6.16e-03	-2.46e-05	-9.99e-04
6	19	0.0	0.15	-0.04	-9.85e-04	4.35e-04	1.60e-04
6	20	0.0	-0.18	-0.02	1.23e-03	2.60e-04	-2.00e-04
6	21	0.0	0.0	-0.03	0.0	3.57e-04	0.0
7	4	-0.02	-0.79	-0.45	7.28e-03	4.67e-05	-1.80e-04
7	7	0.03	0.69	0.16	-5.01e-03	-2.40e-04	1.44e-04
7	8	-0.01	-0.78	-0.48	7.45e-03	1.58e-05	-1.80e-04

7	12	-9.68e-03	-0.53	-0.31	4.88e-03	2.35e-05	-1.20e-04
7	15	0.02	0.46	0.10	-3.32e-03	-1.68e-04	9.59e-05
7	16	-7.82e-03	-0.52	-0.33	4.99e-03	2.94e-06	-1.20e-04
7	19	9.01e-03	0.10	-0.03	-4.73e-04	-8.66e-05	1.92e-05
7	20	3.21e-03	-0.09	-0.12	1.19e-03	-5.24e-05	-2.40e-05
7	21	6.44e-03	0.02	-0.07	2.65e-04	-7.14e-05	0.0
8	4	0.02	-2.46	0.71	0.01	4.67e-05	-1.80e-04
8	7	-0.03	2.02	-0.77	-9.77e-03	-2.40e-04	1.44e-04
8	12	9.68e-03	-1.64	0.47	7.44e-03	2.35e-05	-1.20e-04
8	15	-0.02	1.35	-0.52	-6.54e-03	-1.68e-04	9.59e-05
8	19	-9.01e-03	0.28	-0.15	-1.50e-03	-8.66e-05	1.92e-05
8	20	-3.21e-03	-0.31	0.04	1.27e-03	-5.24e-05	-2.40e-05
8	21	-6.44e-03	0.02	-0.07	-2.65e-04	-7.14e-05	0.0
9	7	0.0	1.19	-0.19	-7.39e-03	-2.40e-04	1.44e-04
9	8	0.0	-1.49	0.01	9.24e-03	1.58e-05	-1.80e-04
9	15	0.0	0.80	-0.13	-4.93e-03	-1.68e-04	9.59e-05
9	16	0.0	-0.99	3.96e-03	6.16e-03	2.94e-06	-1.20e-04
9	19	0.0	0.16	-0.07	-9.85e-04	-8.66e-05	1.92e-05
9	20	0.0	-0.20	-0.04	1.23e-03	-5.24e-05	-2.40e-05
9	21	0.0	0.0	-0.06	0.0	-7.14e-05	0.0
10	4	0.04	-0.72	-0.48	7.28e-03	2.75e-04	1.06e-03
10	5	0.08	0.40	0.13	-2.63e-03	-1.26e-03	-5.10e-04
10	8	0.06	-0.71	-0.49	7.45e-03	1.01e-04	1.06e-03
10	12	0.03	-0.48	-0.32	4.88e-03	1.42e-04	7.08e-04
10	13	0.06	0.27	0.09	-1.73e-03	-8.80e-04	-3.40e-04
10	16	0.04	-0.47	-0.33	4.99e-03	2.61e-05	7.08e-04
10	18	0.04	0.02	-0.04	3.09e-04	-4.38e-04	0.0
10	19	0.04	0.10	0.01	-4.73e-04	-4.78e-04	-1.13e-04
10	20	0.03	-0.08	-0.09	1.19e-03	-2.85e-04	1.42e-04
10	21	0.04	0.02	-0.03	2.65e-04	-3.92e-04	0.0
11	4	-0.04	-2.38	0.69	0.01	2.75e-04	1.06e-03
11	5	-0.08	1.20	-0.43	-6.23e-03	-1.26e-03	-5.10e-04
11	12	-0.03	-1.59	0.46	7.44e-03	1.42e-04	7.08e-04
11	13	-0.06	0.80	-0.29	-4.18e-03	-8.80e-04	-3.40e-04
11	18	-0.04	0.02	-0.04	-3.09e-04	-4.38e-04	0.0
11	19	-0.04	0.27	-0.11	-1.50e-03	-4.78e-04	-1.13e-04
11	20	-0.03	-0.30	0.07	1.27e-03	-2.85e-04	1.42e-04
11	21	-0.04	0.02	-0.03	-2.65e-04	-3.92e-04	0.0
12	7	0.0	1.13	-0.07	-7.39e-03	-1.34e-03	-8.50e-04
12	8	0.0	-1.42	5.54e-03	9.24e-03	1.01e-04	1.06e-03
12	15	0.0	0.76	-0.05	-4.93e-03	-9.35e-04	-5.67e-04
12	16	0.0	-0.94	1.70e-03	6.16e-03	2.61e-05	7.08e-04
12	19	0.0	0.15	-0.02	-9.85e-04	-4.78e-04	-1.13e-04
12	20	0.0	-0.19	-0.01	1.23e-03	-2.85e-04	1.42e-04
12	21	0.0	0.0	-0.02	0.0	-3.92e-04	0.0
13	4	-0.02	-0.64	-0.49	7.28e-03	-2.57e-04	-6.67e-04
13	5	-0.09	0.37	0.19	-2.63e-03	1.24e-03	3.20e-04
13	8	-0.03	-0.63	-0.50	7.45e-03	-8.70e-05	-6.67e-04
13	12	-0.02	-0.43	-0.33	4.88e-03	-1.29e-04	-4.45e-04
13	13	-0.06	0.25	0.12	-1.73e-03	8.69e-04	2.14e-04
13	16	-0.03	-0.42	-0.33	4.99e-03	-1.62e-05	-4.45e-04
13	18	-0.04	0.02	-0.02	3.09e-04	4.38e-04	0.0
13	19	-0.04	0.09	0.04	-4.73e-04	4.76e-04	7.12e-05
13	20	-0.03	-0.07	-0.08	1.19e-03	2.88e-04	-8.90e-05
13	21	-0.04	0.02	-0.01	2.65e-04	3.93e-04	0.0
14	4	0.02	-2.31	0.68	0.01	-2.57e-04	-6.67e-04
14	5	0.09	1.17	-0.37	-6.23e-03	1.24e-03	3.20e-04
14	12	0.02	-1.54	0.45	7.44e-03	-1.29e-04	-4.45e-04
14	13	0.06	0.78	-0.25	-4.18e-03	8.69e-04	2.14e-04
14	18	0.04	0.02	-0.02	-3.09e-04	4.38e-04	0.0
14	19	0.04	0.27	-0.09	-1.50e-03	4.76e-04	7.12e-05
14	20	0.03	-0.29	0.08	1.27e-03	2.88e-04	-8.90e-05
14	21	0.04	0.02	-0.01	-2.65e-04	3.93e-04	0.0
15	7	0.0	1.07	-5.36e-03	-7.39e-03	1.32e-03	5.34e-04
15	8	0.0	-1.34	2.85e-04	9.24e-03	-8.70e-05	-6.67e-04
15	15	0.0	0.72	-3.75e-03	-4.93e-03	9.23e-04	3.56e-04
15	16	0.0	-0.90	1.62e-05	6.16e-03	-1.62e-05	-4.45e-04
15	19	0.0	0.14	-1.96e-03	-9.85e-04	4.76e-04	7.12e-05
15	20	0.0	-0.18	-1.20e-03	1.23e-03	2.88e-04	-8.90e-05
15	21	0.0	0.0	-1.62e-03	0.0	3.93e-04	0.0
16	4	-0.06	-0.87	-0.41	7.28e-03	-6.92e-04	-1.95e-03
16	5	-0.24	0.48	-0.17	-2.63e-03	3.27e-03	9.35e-04
16	8	-0.10	-0.86	-0.47	7.45e-03	-2.43e-04	-1.95e-03
16	12	-0.05	-0.58	-0.29	4.88e-03	-3.52e-04	-1.30e-03
16	13	-0.17	0.32	-0.13	-1.73e-03	2.29e-03	6.23e-04
16	16	-0.08	-0.57	-0.33	4.99e-03	-5.24e-05	-1.30e-03
16	18	-0.10	0.02	-0.14	3.09e-04	1.15e-03	0.0

16	19	-0.10	0.11	-0.10	-4.73e-04	1.25e-03	2.08e-04
16	20	-0.08	-0.10	-0.16	1.19e-03	7.54e-04	-2.60e-04
16	21	-0.09	0.02	-0.13	2.65e-04	1.03e-03	0.0
17	4	0.06	-2.54	0.75	0.01	-6.92e-04	-1.95e-03
17	5	0.24	1.28	-0.73	-6.23e-03	3.27e-03	9.35e-04
17	7	0.22	2.08	-0.97	-9.77e-03	3.49e-03	1.56e-03
17	12	0.05	-1.69	0.49	7.44e-03	-3.52e-04	-1.30e-03
17	13	0.17	0.85	-0.50	-4.18e-03	2.29e-03	6.23e-04
17	15	0.15	1.39	-0.66	-6.54e-03	2.43e-03	1.04e-03
17	18	0.10	0.02	-0.14	-3.09e-04	1.15e-03	0.0
17	19	0.10	0.29	-0.23	-1.50e-03	1.25e-03	2.08e-04
17	20	0.08	-0.32	-4.32e-03	1.27e-03	7.54e-04	-2.60e-04
17	21	0.09	0.02	-0.13	-2.65e-04	1.03e-03	0.0
18	7	0.0	1.26	-0.39	-7.39e-03	3.49e-03	1.56e-03
18	8	0.0	-1.57	0.03	9.24e-03	-2.43e-04	-1.95e-03
18	15	0.0	0.84	-0.27	-4.93e-03	2.43e-03	1.04e-03
18	16	0.0	-1.05	5.64e-03	6.16e-03	-5.24e-05	-1.30e-03
18	19	0.0	0.17	-0.14	-9.85e-04	1.25e-03	2.08e-04
18	20	0.0	-0.21	-0.08	1.23e-03	7.54e-04	-2.60e-04
18	21	0.0	0.0	-0.11	0.0	1.03e-03	0.0
19	4	0.06	-0.98	-0.35	7.28e-03	-1.75e-04	6.50e-04
19	6	4.37e-04	-0.56	-0.53	4.84e-03	2.68e-04	3.90e-04
19	7	-0.11	0.84	-0.35	-5.01e-03	8.98e-04	-5.20e-04
19	12	0.04	-0.65	-0.26	4.88e-03	-8.80e-05	4.34e-04
19	14	-2.27e-03	-0.37	-0.37	3.25e-03	2.07e-04	2.60e-04
19	15	-0.08	0.56	-0.26	-3.32e-03	6.27e-04	-3.47e-04
19	18	-0.03	0.02	-0.25	3.09e-04	2.97e-04	0.0
19	19	-0.03	0.13	-0.22	-4.73e-04	3.23e-04	-6.94e-05
19	21	-0.02	0.02	-0.22	2.65e-04	2.67e-04	0.0
20	4	-0.06	-2.65	0.81	0.01	-1.75e-04	6.50e-04
20	7	0.11	2.17	-1.29	-9.77e-03	8.98e-04	-5.20e-04
20	12	-0.04	-1.76	0.52	7.44e-03	-8.80e-05	4.34e-04
20	15	0.08	1.45	-0.88	-6.54e-03	6.27e-04	-3.47e-04
20	19	0.03	0.30	-0.34	-1.50e-03	3.23e-04	-6.94e-05
20	20	0.01	-0.34	-0.07	1.27e-03	1.96e-04	8.67e-05
20	21	0.02	0.02	-0.22	-2.65e-04	2.67e-04	0.0
21	7	0.0	1.35	-0.71	-7.39e-03	8.98e-04	-5.20e-04
21	8	0.0	-1.68	0.05	9.24e-03	-5.96e-05	6.50e-04
21	15	0.0	0.90	-0.49	-4.93e-03	6.27e-04	-3.47e-04
21	16	0.0	-1.12	0.01	6.16e-03	-1.13e-05	4.34e-04
21	19	0.0	0.18	-0.25	-9.85e-04	3.23e-04	-6.94e-05
21	20	0.0	-0.22	-0.15	1.23e-03	1.96e-04	8.67e-05
21	21	0.0	0.0	-0.21	0.0	2.67e-04	0.0
22	4	0.21	-0.66	-0.38	7.28e-03	6.06e-04	4.23e-03
22	6	0.24	-0.36	-0.48	4.84e-03	-9.04e-04	2.54e-03
22	8	0.25	-0.65	-0.46	7.45e-03	2.13e-04	4.23e-03
22	12	0.15	-0.44	-0.27	4.88e-03	3.08e-04	2.82e-03
22	14	0.17	-0.24	-0.34	3.25e-03	-6.99e-04	1.69e-03
22	16	0.17	-0.43	-0.33	4.99e-03	4.63e-05	2.82e-03
22	18	0.09	0.02	-0.20	3.09e-04	-1.00e-03	0.0
22	19	0.07	0.09	-0.16	-4.73e-04	-1.09e-03	-4.51e-04
22	20	0.09	-0.07	-0.20	1.19e-03	-6.58e-04	5.64e-04
22	21	0.08	0.02	-0.18	2.65e-04	-9.00e-04	0.0
23	4	-0.21	-2.32	0.79	0.01	6.06e-04	4.23e-03
23	7	-0.06	1.91	-1.14	-9.77e-03	-3.05e-03	-3.38e-03
23	8	-0.25	-2.31	0.71	0.01	2.13e-04	4.23e-03
23	12	-0.15	-1.55	0.50	7.44e-03	3.08e-04	2.82e-03
23	15	-0.05	1.28	-0.78	-6.54e-03	-2.13e-03	-2.26e-03
23	16	-0.17	-1.54	0.45	7.33e-03	4.63e-05	2.82e-03
23	19	-0.07	0.27	-0.29	-1.50e-03	-1.09e-03	-4.51e-04
23	20	-0.09	-0.30	-0.04	1.27e-03	-6.58e-04	5.64e-04
23	21	-0.08	0.02	-0.18	-2.65e-04	-9.00e-04	0.0
24	7	0.0	1.09	-0.56	-7.39e-03	-3.05e-03	-3.38e-03
24	8	0.0	-1.36	0.04	9.24e-03	2.13e-04	4.23e-03
24	15	0.0	0.73	-0.39	-4.93e-03	-2.13e-03	-2.26e-03
24	16	0.0	-0.91	7.86e-03	6.16e-03	4.63e-05	2.82e-03
24	19	0.0	0.15	-0.20	-9.85e-04	-1.09e-03	-4.51e-04
24	20	0.0	-0.18	-0.12	1.23e-03	-6.58e-04	5.64e-04
24	21	0.0	0.0	-0.17	0.0	-9.00e-04	0.0
25	6	0.36	0.03	-0.30	4.52e-03	-1.48e-03	3.54e-03
25	8	0.34	0.03	-0.49	7.21e-03	3.24e-04	5.89e-03
25	14	0.25	0.02	-0.20	3.03e-03	-1.15e-03	2.36e-03
25	16	0.24	0.02	-0.33	4.82e-03	5.94e-05	3.93e-03
25	18	0.15	0.01	-8.92e-03	1.72e-04	-1.64e-03	0.0
25	20	0.15	0.01	-0.07	1.07e-03	-1.08e-03	7.86e-04
25	21	0.13	0.01	-7.81e-03	1.50e-04	-1.47e-03	0.0
26	4	-0.29	-1.64	0.68	0.01	9.59e-04	5.89e-03

26	6	-0.36	-0.97	0.40	6.56e-03	-1.48e-03	3.54e-03
26	12	-0.20	-1.09	0.45	7.55e-03	4.83e-04	3.93e-03
26	14	-0.25	-0.64	0.26	4.36e-03	-1.15e-03	2.36e-03
26	18	-0.15	0.01	-8.92e-03	-1.72e-04	-1.64e-03	0.0
26	20	-0.15	-0.21	0.08	1.39e-03	-1.08e-03	7.86e-04
26	21	-0.13	0.01	-7.81e-03	-1.50e-04	-1.47e-03	0.0
27	7	0.0	0.53	-2.27e-03	-7.39e-03	-4.95e-03	-4.72e-03
27	8	0.0	-0.67	3.72e-04	9.24e-03	3.24e-04	5.89e-03
27	15	0.0	0.35	-1.58e-03	-4.93e-03	-3.46e-03	-3.14e-03
27	16	0.0	-0.44	1.78e-04	6.16e-03	5.94e-05	3.93e-03
27	19	0.0	0.07	-7.95e-04	-9.85e-04	-1.78e-03	-6.29e-04
27	20	0.0	-0.09	-4.43e-04	1.23e-03	-1.08e-03	7.86e-04
27	21	0.0	0.0	-6.38e-04	0.0	-1.47e-03	0.0
28	4	-0.06	-0.98	-0.35	7.28e-03	1.75e-04	-6.50e-04
28	6	-4.37e-04	-0.56	-0.53	4.84e-03	-2.68e-04	-3.90e-04
28	7	0.11	0.84	-0.35	-5.01e-03	-8.98e-04	5.20e-04
28	12	-0.04	-0.65	-0.26	4.88e-03	8.80e-05	-4.34e-04
28	14	2.27e-03	-0.37	-0.37	3.25e-03	-2.07e-04	-2.60e-04
28	15	0.08	0.56	-0.26	-3.32e-03	-6.27e-04	3.47e-04
28	18	0.03	0.02	-0.25	3.09e-04	-2.97e-04	0.0
28	19	0.03	0.13	-0.22	-4.73e-04	-3.23e-04	6.94e-05
28	21	0.02	0.02	-0.22	2.65e-04	-2.67e-04	0.0
29	4	0.06	-2.65	0.81	0.01	1.75e-04	-6.50e-04
29	7	-0.11	2.17	-1.29	-9.77e-03	-8.98e-04	5.20e-04
29	12	0.04	-1.76	0.52	7.44e-03	8.80e-05	-4.34e-04
29	15	-0.08	1.45	-0.88	-6.54e-03	-6.27e-04	3.47e-04
29	19	-0.03	0.30	-0.34	-1.50e-03	-3.23e-04	6.94e-05
29	20	-0.01	-0.34	-0.07	1.27e-03	-1.96e-04	-8.67e-05
29	21	-0.02	0.02	-0.22	-2.65e-04	-2.67e-04	0.0
30	7	0.0	1.35	-0.71	-7.39e-03	-8.98e-04	5.20e-04
30	8	0.0	-1.68	0.05	9.24e-03	5.96e-05	-6.50e-04
30	15	0.0	0.90	-0.49	-4.93e-03	-6.27e-04	3.47e-04
30	16	0.0	-1.12	0.01	6.16e-03	1.13e-05	-4.34e-04
30	19	0.0	0.18	-0.25	-9.85e-04	-3.23e-04	6.94e-05
30	20	0.0	-0.22	-0.15	1.23e-03	-1.96e-04	-8.67e-05
30	21	0.0	0.0	-0.21	0.0	-2.67e-04	0.0
31	1	0.0	0.0	0.0	0.0	0.0	0.0
31	9	0.0	0.0	0.0	0.0	0.0	0.0
31	17	0.0	0.0	0.0	0.0	0.0	0.0
31	21	0.0	0.0	0.0	0.0	0.0	0.0
32	4	0.06	-0.87	-0.41	7.28e-03	6.92e-04	1.95e-03
32	5	0.24	0.48	-0.17	-2.63e-03	-3.27e-03	-9.35e-04
32	8	0.10	-0.86	-0.47	7.45e-03	2.43e-04	1.95e-03
32	12	0.05	-0.58	-0.29	4.88e-03	3.52e-04	1.30e-03
32	13	0.17	0.32	-0.13	-1.73e-03	-2.29e-03	-6.23e-04
32	16	0.08	-0.57	-0.33	4.99e-03	5.24e-05	1.30e-03
32	18	0.10	0.02	-0.14	3.09e-04	-1.15e-03	0.0
32	19	0.10	0.11	-0.10	-4.73e-04	-1.25e-03	-2.08e-04
32	20	0.08	-0.10	-0.16	1.19e-03	-7.54e-04	2.60e-04
32	21	0.09	0.02	-0.13	2.65e-04	-1.03e-03	0.0
33	1	0.0	0.0	0.0	0.0	0.0	0.0
33	9	0.0	0.0	0.0	0.0	0.0	0.0
33	17	0.0	0.0	0.0	0.0	0.0	0.0
33	21	0.0	0.0	0.0	0.0	0.0	0.0
34	4	-0.06	-2.54	0.75	0.01	6.92e-04	1.95e-03
34	5	-0.24	1.28	-0.73	-6.23e-03	-3.27e-03	-9.35e-04
34	7	-0.22	2.08	-0.97	-9.77e-03	-3.49e-03	-1.56e-03
34	12	-0.05	-1.69	0.49	7.44e-03	3.52e-04	1.30e-03
34	13	-0.17	0.85	-0.50	-4.18e-03	-2.29e-03	-6.23e-04
34	15	-0.15	1.39	-0.66	-6.54e-03	-2.43e-03	-1.04e-03
34	18	-0.10	0.02	-0.14	-3.09e-04	-1.15e-03	0.0
34	19	-0.10	0.29	-0.23	-1.50e-03	-1.25e-03	-2.08e-04
34	20	-0.08	-0.32	-4.32e-03	1.27e-03	-7.54e-04	2.60e-04
34	21	-0.09	0.02	-0.13	-2.65e-04	-1.03e-03	0.0
35	7	0.0	1.26	-0.39	-7.39e-03	-3.49e-03	-1.56e-03
35	8	0.0	-1.57	0.03	9.24e-03	2.43e-04	1.95e-03
35	15	0.0	0.84	-0.27	-4.93e-03	-2.43e-03	-1.04e-03
35	16	0.0	-1.05	5.64e-03	6.16e-03	5.24e-05	1.30e-03
35	19	0.0	0.17	-0.14	-9.85e-04	-1.25e-03	-2.08e-04
35	20	0.0	-0.21	-0.08	1.23e-03	-7.54e-04	2.60e-04
35	21	0.0	0.0	-0.11	0.0	-1.03e-03	0.0
36	4	-0.06	-0.67	-0.45	7.28e-03	-3.69e-04	-1.43e-03
36	5	-0.11	0.38	0.02	-2.63e-03	1.71e-03	6.87e-04
36	8	-0.08	-0.66	-0.48	7.45e-03	-1.33e-04	-1.43e-03
36	12	-0.04	-0.44	-0.31	4.88e-03	-1.89e-04	-9.54e-04
36	13	-0.08	0.25	6.45e-03	-1.73e-03	1.20e-03	4.58e-04
36	16	-0.06	-0.44	-0.33	4.99e-03	-3.20e-05	-9.54e-04

36	18	-0.05	0.02	-0.08	3.09e-04	5.99e-04	0.0
36	19	-0.05	0.09	-0.03	-4.73e-04	6.52e-04	1.53e-04
36	20	-0.05	-0.07	-0.12	1.19e-03	3.91e-04	-1.91e-04
36	21	-0.05	0.02	-0.07	2.65e-04	5.36e-04	0.0
37	1	0.0	0.0	0.0	0.0	0.0	0.0
37	9	0.0	0.0	0.0	0.0	0.0	0.0
37	17	0.0	0.0	0.0	0.0	0.0	0.0
37	21	0.0	0.0	0.0	0.0	0.0	0.0
38	1	0.0	0.0	0.0	0.0	0.0	0.0
38	9	0.0	0.0	0.0	0.0	0.0	0.0
38	17	0.0	0.0	0.0	0.0	0.0	0.0
38	21	0.0	0.0	0.0	0.0	0.0	0.0
39	1	0.0	0.0	0.0	0.0	0.0	0.0
39	9	0.0	0.0	0.0	0.0	0.0	0.0
39	17	0.0	0.0	0.0	0.0	0.0	0.0
39	21	0.0	0.0	0.0	0.0	0.0	0.0
40	1	0.0	0.0	0.0	0.0	0.0	0.0
40	9	0.0	0.0	0.0	0.0	0.0	0.0
40	17	0.0	0.0	0.0	0.0	0.0	0.0
40	21	0.0	0.0	0.0	0.0	0.0	0.0
41	1	0.0	0.0	0.0	0.0	0.0	0.0
41	9	0.0	0.0	0.0	0.0	0.0	0.0
41	17	0.0	0.0	0.0	0.0	0.0	0.0
41	21	0.0	0.0	0.0	0.0	0.0	0.0
42	4	0.02	-0.64	-0.49	7.28e-03	2.57e-04	6.67e-04
42	5	0.09	0.37	0.19	-2.63e-03	-1.24e-03	-3.20e-04
42	8	0.03	-0.63	-0.50	7.45e-03	8.70e-05	6.67e-04
42	12	0.02	-0.43	-0.33	4.88e-03	1.29e-04	4.45e-04
42	13	0.06	0.25	0.12	-1.73e-03	-8.69e-04	-2.14e-04
42	16	0.03	-0.42	-0.33	4.99e-03	1.62e-05	4.45e-04
42	18	0.04	0.02	-0.02	3.09e-04	-4.38e-04	0.0
42	19	0.04	0.09	0.04	-4.73e-04	-4.76e-04	-7.12e-05
42	20	0.03	-0.07	-0.08	1.19e-03	-2.88e-04	8.90e-05
42	21	0.04	0.02	-0.01	2.65e-04	-3.93e-04	0.0
43	1	0.0	0.0	0.0	0.0	0.0	0.0
43	9	0.0	0.0	0.0	0.0	0.0	0.0
43	17	0.0	0.0	0.0	0.0	0.0	0.0
43	21	0.0	0.0	0.0	0.0	0.0	0.0
44	4	-0.02	-2.31	0.68	0.01	2.57e-04	6.67e-04
44	5	-0.09	1.17	-0.37	-6.23e-03	-1.24e-03	-3.20e-04
44	12	-0.02	-1.54	0.45	7.44e-03	1.29e-04	4.45e-04
44	13	-0.06	0.78	-0.25	-4.18e-03	-8.69e-04	-2.14e-04
44	18	-0.04	0.02	-0.02	-3.09e-04	-4.38e-04	0.0
44	19	-0.04	0.27	-0.09	-1.50e-03	-4.76e-04	-7.12e-05
44	20	-0.03	-0.29	0.08	1.27e-03	-2.88e-04	8.90e-05
44	21	-0.04	0.02	-0.01	-2.65e-04	-3.93e-04	0.0
45	7	0.0	1.07	-5.36e-03	-7.39e-03	-1.32e-03	-5.34e-04
45	8	0.0	-1.34	2.85e-04	9.24e-03	8.70e-05	6.67e-04
45	15	0.0	0.72	-3.75e-03	-4.93e-03	-9.23e-04	-3.56e-04
45	16	0.0	-0.90	1.62e-05	6.16e-03	1.62e-05	4.45e-04
45	19	0.0	0.14	-1.96e-03	-9.85e-04	-4.76e-04	-7.12e-05
45	20	0.0	-0.18	-1.20e-03	1.23e-03	-2.88e-04	8.90e-05
45	21	0.0	0.0	-1.62e-03	0.0	-3.93e-04	0.0
46	4	-0.04	-0.72	-0.48	7.28e-03	-2.75e-04	-1.06e-03
46	5	-0.08	0.40	0.13	-2.63e-03	1.26e-03	5.10e-04
46	8	-0.06	-0.71	-0.49	7.45e-03	-1.01e-04	-1.06e-03
46	12	-0.03	-0.48	-0.32	4.88e-03	-1.42e-04	-7.08e-04
46	13	-0.06	0.27	0.09	-1.73e-03	8.80e-04	3.40e-04
46	16	-0.04	-0.47	-0.33	4.99e-03	-2.61e-05	-7.08e-04
46	18	-0.04	0.02	-0.04	3.09e-04	4.38e-04	0.0
46	19	-0.04	0.10	0.01	-4.73e-04	4.78e-04	1.13e-04
46	20	-0.03	-0.08	-0.09	1.19e-03	2.85e-04	-1.42e-04
46	21	-0.04	0.02	-0.03	2.65e-04	3.92e-04	0.0
47	4	0.04	-2.38	0.69	0.01	-2.75e-04	-1.06e-03
47	5	0.08	1.20	-0.43	-6.23e-03	1.26e-03	5.10e-04
47	12	0.03	-1.59	0.46	7.44e-03	-1.42e-04	-7.08e-04
47	13	0.06	0.80	-0.29	-4.18e-03	8.80e-04	3.40e-04
47	18	0.04	0.02	-0.04	-3.09e-04	4.38e-04	0.0
47	19	0.04	0.27	-0.11	-1.50e-03	4.78e-04	1.13e-04
47	20	0.03	-0.30	0.07	1.27e-03	2.85e-04	-1.42e-04
47	21	0.04	0.02	-0.03	-2.65e-04	3.92e-04	0.0
48	7	0.0	1.13	-0.07	-7.39e-03	1.34e-03	8.50e-04
48	8	0.0	-1.42	5.54e-03	9.24e-03	-1.01e-04	-1.06e-03
48	15	0.0	0.76	-0.05	-4.93e-03	9.35e-04	5.67e-04
48	16	0.0	-0.94	1.70e-03	6.16e-03	-2.61e-05	-7.08e-04
48	19	0.0	0.15	-0.02	-9.85e-04	4.78e-04	1.13e-04
48	20	0.0	-0.19	-0.01	1.23e-03	2.85e-04	-1.42e-04

48	21	0.0	0.0	-0.02	0.0	3.92e-04	0.0
49	4	0.02	-0.79	-0.45	7.28e-03	-4.67e-05	1.80e-04
49	7	-0.03	0.69	0.16	-5.01e-03	2.40e-04	-1.44e-04
49	8	0.01	-0.78	-0.48	7.45e-03	-1.58e-05	1.80e-04
49	12	9.68e-03	-0.53	-0.31	4.88e-03	-2.35e-05	1.20e-04
49	15	-0.02	0.46	0.10	-3.32e-03	1.68e-04	-9.59e-05
49	16	7.82e-03	-0.52	-0.33	4.99e-03	-2.94e-06	1.20e-04
49	19	-9.01e-03	0.10	-0.03	-4.73e-04	8.66e-05	-1.92e-05
49	20	-3.21e-03	-0.09	-0.12	1.19e-03	5.24e-05	2.40e-05
49	21	-6.44e-03	0.02	-0.07	2.65e-04	7.14e-05	0.0
50	1	0.0	0.0	0.0	0.0	0.0	0.0
50	9	0.0	0.0	0.0	0.0	0.0	0.0
50	17	0.0	0.0	0.0	0.0	0.0	0.0
50	21	0.0	0.0	0.0	0.0	0.0	0.0
51	4	-0.02	-2.46	0.71	0.01	-4.67e-05	1.80e-04
51	7	0.03	2.02	-0.77	-9.77e-03	2.40e-04	-1.44e-04
51	12	-9.68e-03	-1.64	0.47	7.44e-03	-2.35e-05	1.20e-04
51	15	0.02	1.35	-0.52	-6.54e-03	1.68e-04	-9.59e-05
51	19	9.01e-03	0.28	-0.15	-1.50e-03	8.66e-05	-1.92e-05
51	20	3.21e-03	-0.31	0.04	1.27e-03	5.24e-05	2.40e-05
51	21	6.44e-03	0.02	-0.07	-2.65e-04	7.14e-05	0.0
52	7	0.0	1.19	-0.19	-7.39e-03	2.40e-04	-1.44e-04
52	8	0.0	-1.49	0.01	9.24e-03	-1.58e-05	1.80e-04
52	15	0.0	0.80	-0.13	-4.93e-03	1.68e-04	-9.59e-05
52	16	0.0	-0.99	3.96e-03	6.16e-03	-2.94e-06	1.20e-04
52	19	0.0	0.16	-0.07	-9.85e-04	8.66e-05	-1.92e-05
52	20	0.0	-0.20	-0.04	1.23e-03	5.24e-05	2.40e-05
52	21	0.0	0.0	-0.06	0.0	7.14e-05	0.0
53	4	0.07	-0.67	-0.47	7.28e-03	2.52e-04	1.50e-03
53	6	0.09	-0.37	-0.35	4.84e-03	-3.57e-04	8.99e-04
53	8	0.09	-0.66	-0.49	7.45e-03	9.36e-05	1.50e-03
53	12	0.05	-0.44	-0.32	4.88e-03	1.30e-04	9.99e-04
53	14	0.06	-0.24	-0.24	3.25e-03	-2.76e-04	6.00e-04
53	16	0.06	-0.44	-0.33	4.99e-03	2.46e-05	9.99e-04
53	19	0.03	0.09	-2.23e-03	-4.73e-04	-4.35e-04	-1.60e-04
53	20	0.04	-0.07	-0.10	1.19e-03	-2.60e-04	2.00e-04
53	21	0.03	0.02	-0.05	2.65e-04	-3.57e-04	0.0
54	4	-0.07	-2.33	0.70	0.01	2.52e-04	1.50e-03
54	6	-0.09	-1.37	0.35	6.24e-03	-3.57e-04	8.99e-04
54	12	-0.05	-1.55	0.46	7.44e-03	1.30e-04	9.99e-04
54	14	-0.06	-0.91	0.23	4.14e-03	-2.76e-04	6.00e-04
54	15	-0.03	1.28	-0.47	-6.54e-03	-8.53e-04	-7.99e-04
54	19	-0.03	0.27	-0.13	-1.50e-03	-4.35e-04	-1.60e-04
54	20	-0.04	-0.30	0.06	1.27e-03	-2.60e-04	2.00e-04
54	21	-0.03	0.02	-0.05	-2.65e-04	-3.57e-04	0.0
55	7	0.0	1.09	-0.11	-7.39e-03	-1.22e-03	-1.20e-03
55	8	0.0	-1.37	8.62e-03	9.24e-03	9.36e-05	1.50e-03
55	15	0.0	0.73	-0.08	-4.93e-03	-8.53e-04	-7.99e-04
55	16	0.0	-0.91	2.27e-03	6.16e-03	2.46e-05	9.99e-04
55	19	0.0	0.15	-0.04	-9.85e-04	-4.35e-04	-1.60e-04
55	20	0.0	-0.18	-0.02	1.23e-03	-2.60e-04	2.00e-04
55	21	0.0	0.0	-0.03	0.0	-3.57e-04	0.0
56	4	6.12e-03	-0.52	-0.49	7.28e-03	-6.83e-05	0.0
56	7	-0.03	0.47	0.35	-5.01e-03	3.52e-04	0.0
56	8	2.05e-03	-0.51	-0.50	7.45e-03	-2.32e-05	0.0
56	12	3.07e-03	-0.35	-0.33	4.88e-03	-3.44e-05	0.0
56	15	-0.02	0.32	0.23	-3.32e-03	2.46e-04	0.0
56	16	3.65e-04	-0.34	-0.33	4.99e-03	-4.30e-06	0.0
56	19	-0.01	0.08	0.04	-4.73e-04	1.27e-04	0.0
56	20	-6.92e-03	-0.06	-0.08	1.19e-03	7.67e-05	0.0
56	21	-9.41e-03	0.02	-0.01	2.65e-04	1.04e-04	0.0
57	4	-6.12e-03	-2.19	0.68	0.01	-6.83e-05	0.0
57	7	0.03	1.81	-0.58	-9.77e-03	3.52e-04	0.0
57	12	-3.07e-03	-1.46	0.45	7.44e-03	-3.44e-05	0.0
57	15	0.02	1.21	-0.39	-6.54e-03	2.46e-04	0.0
57	19	0.01	0.25	-0.09	-1.50e-03	1.27e-04	0.0
57	20	6.92e-03	-0.28	0.08	1.27e-03	7.67e-05	0.0
57	21	9.41e-03	0.02	-0.01	-2.65e-04	1.04e-04	0.0
58	7	0.0	0.98	-4.61e-03	-7.39e-03	3.52e-04	0.0
58	8	0.0	-1.22	2.36e-04	9.24e-03	-2.32e-05	0.0
58	15	0.0	0.65	-3.23e-03	-4.93e-03	2.46e-04	0.0
58	16	0.0	-0.82	7.03e-06	6.16e-03	-4.30e-06	0.0
58	19	0.0	0.13	-1.69e-03	-9.85e-04	1.27e-04	0.0
58	20	0.0	-0.16	-1.04e-03	1.23e-03	7.67e-05	0.0
58	21	0.0	0.0	-1.40e-03	0.0	1.04e-04	0.0
59	4	-0.06	-0.67	-0.45	7.28e-03	-3.63e-04	-1.46e-03
59	5	-0.11	0.38	8.21e-03	-2.63e-03	1.68e-03	7.00e-04

59	8	-0.08	-0.65	-0.48	7.45e-03	-1.31e-04	-1.46e-03
59	12	-0.04	-0.44	-0.31	4.88e-03	-1.86e-04	-9.73e-04
59	13	-0.08	0.25	-1.92e-03	-1.73e-03	1.18e-03	4.67e-04
59	16	-0.06	-0.43	-0.33	4.99e-03	-3.16e-05	-9.73e-04
59	18	-0.05	0.02	-0.08	3.09e-04	5.89e-04	0.0
59	19	-0.05	0.09	-0.03	-4.73e-04	6.41e-04	1.56e-04
59	20	-0.05	-0.07	-0.12	1.19e-03	3.84e-04	-1.95e-04
59	21	-0.05	0.02	-0.07	2.65e-04	5.27e-04	0.0
60	4	0.06	-2.33	0.71	0.01	-3.63e-04	-1.46e-03
60	5	0.11	1.18	-0.55	-6.23e-03	1.68e-03	7.00e-04
60	7	0.09	1.92	-0.78	-9.77e-03	1.79e-03	1.17e-03
60	12	0.04	-1.55	0.47	7.44e-03	-1.86e-04	-9.73e-04
60	13	0.08	0.79	-0.37	-4.18e-03	1.18e-03	4.67e-04
60	15	0.06	1.28	-0.53	-6.54e-03	1.25e-03	7.78e-04
60	18	0.05	0.02	-0.08	-3.09e-04	5.89e-04	0.0
60	19	0.05	0.27	-0.16	-1.50e-03	6.41e-04	1.56e-04
60	20	0.05	-0.30	0.04	1.27e-03	3.84e-04	-1.95e-04
60	21	0.05	0.02	-0.07	-2.65e-04	5.27e-04	0.0
61	7	0.0	1.09	-0.20	-7.39e-03	1.79e-03	1.17e-03
61	8	0.0	-1.37	0.01	9.24e-03	-1.31e-04	-1.46e-03
61	15	0.0	0.73	-0.14	-4.93e-03	1.25e-03	7.78e-04
61	16	0.0	-0.91	3.32e-03	6.16e-03	-3.16e-05	-9.73e-04
61	19	0.0	0.15	-0.07	-9.85e-04	6.41e-04	1.56e-04
61	20	0.0	-0.18	-0.04	1.23e-03	3.84e-04	-1.95e-04
61	21	0.0	0.0	-0.06	0.0	5.27e-04	0.0
62	4	-2.19e-03	-0.78	-0.42	7.28e-03	1.27e-05	-1.66e-05
62	7	6.73e-03	0.68	0.03	-5.01e-03	-6.54e-05	1.33e-05
62	8	-1.43e-03	-0.77	-0.47	7.45e-03	4.31e-06	-1.66e-05
62	12	-1.27e-03	-0.52	-0.29	4.88e-03	6.39e-06	-1.10e-05
62	15	4.67e-03	0.45	5.68e-03	-3.32e-03	-4.57e-05	8.84e-06
62	16	-7.69e-04	-0.51	-0.33	4.99e-03	0.0	-1.10e-05
62	19	2.23e-03	0.10	-0.08	-4.73e-04	-2.36e-05	1.77e-06
62	20	1.15e-03	-0.09	-0.15	1.19e-03	-1.43e-05	-2.21e-06
62	21	1.75e-03	0.02	-0.11	2.65e-04	-1.94e-05	0.0
63	4	2.19e-03	-2.44	0.74	0.01	1.27e-05	-1.66e-05
63	7	-6.73e-03	2.01	-0.91	-9.77e-03	-6.54e-05	1.33e-05
63	12	1.27e-03	-1.63	0.48	7.44e-03	6.39e-06	-1.10e-05
63	15	-4.67e-03	1.34	-0.62	-6.54e-03	-4.57e-05	8.84e-06
63	19	-2.23e-03	0.28	-0.20	-1.50e-03	-2.36e-05	1.77e-06
63	20	-1.15e-03	-0.31	9.30e-03	1.27e-03	-1.43e-05	-2.21e-06
63	21	-1.75e-03	0.02	-0.11	-2.65e-04	-1.94e-05	0.0
64	7	0.0	1.18	-0.33	-7.39e-03	-6.54e-05	1.33e-05
64	8	0.0	-1.48	0.02	9.24e-03	4.31e-06	-1.66e-05
64	15	0.0	0.79	-0.23	-4.93e-03	-4.57e-05	8.84e-06
64	16	0.0	-0.98	5.64e-03	6.16e-03	0.0	-1.10e-05
64	19	0.0	0.16	-0.12	-9.85e-04	-2.36e-05	1.77e-06
64	20	0.0	-0.20	-0.07	1.23e-03	-1.43e-05	-2.21e-06
64	21	0.0	0.0	-0.10	0.0	-1.94e-05	0.0
65	4	0.06	-2.33	0.71	0.01	-3.69e-04	-1.43e-03
65	5	0.11	1.18	-0.54	-6.23e-03	1.71e-03	6.87e-04
65	7	0.09	1.92	-0.76	-9.77e-03	1.83e-03	1.14e-03
65	12	0.04	-1.55	0.47	7.44e-03	-1.89e-04	-9.54e-04
65	13	0.08	0.79	-0.37	-4.18e-03	1.20e-03	4.58e-04
65	15	0.07	1.28	-0.52	-6.54e-03	1.27e-03	7.63e-04
65	18	0.05	0.02	-0.08	-3.09e-04	5.99e-04	0.0
65	19	0.05	0.27	-0.15	-1.50e-03	6.52e-04	1.53e-04
65	20	0.05	-0.30	0.04	1.27e-03	3.91e-04	-1.91e-04
65	21	0.05	0.02	-0.07	-2.65e-04	5.36e-04	0.0
66	4	0.06	-0.67	-0.45	7.28e-03	3.69e-04	1.43e-03
66	5	0.11	0.38	0.02	-2.63e-03	-1.71e-03	-6.87e-04
66	8	0.08	-0.66	-0.48	7.45e-03	1.33e-04	1.43e-03
66	12	0.04	-0.44	-0.31	4.88e-03	1.89e-04	9.54e-04
66	13	0.08	0.25	6.45e-03	-1.73e-03	-1.20e-03	-4.58e-04
66	16	0.06	-0.44	-0.33	4.99e-03	3.20e-05	9.54e-04
66	18	0.05	0.02	-0.08	3.09e-04	-5.99e-04	0.0
66	19	0.05	0.09	-0.03	-4.73e-04	-6.52e-04	-1.53e-04
66	20	0.05	-0.07	-0.12	1.19e-03	-3.91e-04	1.91e-04
66	21	0.05	0.02	-0.07	2.65e-04	-5.36e-04	0.0
67	4	-0.06	-2.33	0.71	0.01	3.69e-04	1.43e-03
67	5	-0.11	1.18	-0.54	-6.23e-03	-1.71e-03	-6.87e-04
67	7	-0.09	1.92	-0.76	-9.77e-03	-1.83e-03	-1.14e-03
67	12	-0.04	-1.55	0.47	7.44e-03	1.89e-04	9.54e-04
67	13	-0.08	0.79	-0.37	-4.18e-03	-1.20e-03	-4.58e-04
67	15	-0.07	1.28	-0.52	-6.54e-03	-1.27e-03	-7.63e-04
67	18	-0.05	0.02	-0.08	-3.09e-04	-5.99e-04	0.0
67	19	-0.05	0.27	-0.15	-1.50e-03	-6.52e-04	-1.53e-04
67	20	-0.05	-0.30	0.04	1.27e-03	-3.91e-04	1.91e-04

67	21	-0.05	0.02	-0.07	-2.65e-04	-5.36e-04	0.0
68	7	0.0	1.10	-0.19	-7.39e-03	-1.83e-03	-1.14e-03
68	8	0.0	-1.37	0.01	9.24e-03	1.33e-04	1.43e-03
68	15	0.0	0.73	-0.13	-4.93e-03	-1.27e-03	-7.63e-04
68	16	0.0	-0.91	3.16e-03	6.16e-03	3.20e-05	9.54e-04
68	19	0.0	0.15	-0.07	-9.85e-04	-6.52e-04	-1.53e-04
68	20	0.0	-0.18	-0.04	1.23e-03	-3.91e-04	1.91e-04
68	21	0.0	0.0	-0.05	0.0	-5.36e-04	0.0
69	4	-2.26e-03	-0.53	-0.49	7.28e-03	1.70e-05	-1.16e-05
69	7	8.49e-03	0.48	0.35	-5.01e-03	-8.77e-05	9.25e-06
69	8	-1.25e-03	-0.52	-0.50	7.45e-03	5.78e-06	-1.16e-05
69	12	-1.26e-03	-0.35	-0.33	4.88e-03	8.57e-06	-7.71e-06
69	15	5.91e-03	0.32	0.23	-3.32e-03	-6.13e-05	6.17e-06
69	16	-5.83e-04	-0.34	-0.33	4.99e-03	1.07e-06	-7.71e-06
69	19	2.93e-03	0.08	0.04	-4.73e-04	-3.16e-05	1.23e-06
69	20	1.63e-03	-0.06	-0.08	1.19e-03	-1.91e-05	-1.54e-06
69	21	2.35e-03	0.02	-0.01	2.65e-04	-2.61e-05	0.0
70	4	2.26e-03	-2.19	0.68	0.01	1.70e-05	-1.16e-05
70	7	-8.49e-03	1.81	-0.58	-9.77e-03	-8.77e-05	9.25e-06
70	12	1.26e-03	-1.46	0.45	7.44e-03	8.57e-06	-7.71e-06
70	15	-5.91e-03	1.21	-0.39	-6.54e-03	-6.13e-05	6.17e-06
70	19	-2.93e-03	0.25	-0.09	-1.50e-03	-3.16e-05	1.23e-06
70	20	-1.63e-03	-0.28	0.08	1.27e-03	-1.91e-05	-1.54e-06
70	21	-2.35e-03	0.02	-0.01	-2.65e-04	-2.61e-05	0.0
71	7	0.0	0.98	-4.82e-03	-7.39e-03	-8.77e-05	9.25e-06
71	8	0.0	-1.23	2.50e-04	9.24e-03	5.78e-06	-1.16e-05
71	15	0.0	0.66	-3.37e-03	-4.93e-03	-6.13e-05	6.17e-06
71	16	0.0	-0.82	9.53e-06	6.16e-03	1.07e-06	-7.71e-06
71	19	0.0	0.13	-1.76e-03	-9.85e-04	-3.16e-05	1.23e-06
71	20	0.0	-0.16	-1.08e-03	1.23e-03	-1.91e-05	-1.54e-06
71	21	0.0	0.0	-1.46e-03	0.0	-2.61e-05	0.0
72	4	-0.06	-0.67	-0.46	7.28e-03	-3.41e-04	-1.45e-03
72	6	-0.10	-0.37	-0.37	4.84e-03	4.95e-04	-8.72e-04
72	8	-0.08	-0.66	-0.49	7.45e-03	-1.24e-04	-1.45e-03
72	12	-0.05	-0.45	-0.31	4.88e-03	-1.75e-04	-9.69e-04
72	14	-0.07	-0.25	-0.25	3.25e-03	3.82e-04	-5.81e-04
72	16	-0.06	-0.44	-0.33	4.99e-03	-3.02e-05	-9.69e-04
72	18	-0.05	0.02	-0.07	3.09e-04	5.52e-04	0.0
72	19	-0.04	0.09	-0.02	-4.73e-04	6.01e-04	1.55e-04
72	20	-0.04	-0.08	-0.11	1.19e-03	3.60e-04	-1.94e-04
72	21	-0.04	0.02	-0.06	2.65e-04	4.94e-04	0.0
73	1	0.0	0.0	0.0	0.0	0.0	0.0
73	9	0.0	0.0	0.0	0.0	0.0	0.0
73	17	0.0	0.0	0.0	0.0	0.0	0.0
73	21	0.0	0.0	0.0	0.0	0.0	0.0
74	4	0.06	-2.34	0.71	0.01	-3.41e-04	-1.45e-03
74	6	0.10	-1.37	0.33	6.24e-03	4.95e-04	-8.72e-04
74	7	0.08	1.92	-0.74	-9.77e-03	1.68e-03	1.16e-03
74	12	0.05	-1.56	0.47	7.44e-03	-1.75e-04	-9.69e-04
74	14	0.07	-0.91	0.22	4.14e-03	3.82e-04	-5.81e-04
74	15	0.06	1.28	-0.50	-6.54e-03	1.17e-03	7.75e-04
74	18	0.05	0.02	-0.07	-3.09e-04	5.52e-04	0.0
74	19	0.04	0.27	-0.15	-1.50e-03	6.01e-04	1.55e-04
74	20	0.04	-0.30	0.04	1.27e-03	3.60e-04	-1.94e-04
74	21	0.04	0.02	-0.06	-2.65e-04	4.94e-04	0.0
75	7	0.0	1.10	-0.16	-7.39e-03	1.68e-03	1.16e-03
75	8	0.0	-1.37	0.01	9.24e-03	-1.24e-04	-1.45e-03
75	15	0.0	0.73	-0.11	-4.93e-03	1.17e-03	7.75e-04
75	16	0.0	-0.91	2.90e-03	6.16e-03	-3.02e-05	-9.69e-04
75	19	0.0	0.15	-0.06	-9.85e-04	6.01e-04	1.55e-04
75	20	0.0	-0.18	-0.04	1.23e-03	3.60e-04	-1.94e-04
75	21	0.0	0.0	-0.05	0.0	4.94e-04	0.0
76	4	3.20e-04	-0.78	-0.43	7.28e-03	-4.22e-06	0.0
76	7	-1.91e-03	0.68	0.06	-5.01e-03	2.17e-05	0.0
76	8	6.93e-05	-0.77	-0.48	7.45e-03	-1.43e-06	0.0
76	12	1.52e-04	-0.52	-0.30	4.88e-03	-2.12e-06	0.0
76	15	-1.34e-03	0.46	0.03	-3.32e-03	1.52e-05	0.0
76	16	-1.58e-05	-0.51	-0.33	4.99e-03	0.0	0.0
76	19	-6.99e-04	0.10	-0.07	-4.73e-04	7.83e-06	0.0
76	20	-4.35e-04	-0.09	-0.14	1.19e-03	4.74e-06	0.0
76	21	-5.82e-04	0.02	-0.10	2.65e-04	6.46e-06	0.0
77	4	-3.20e-04	-2.45	0.73	0.01	-4.22e-06	0.0
77	7	1.91e-03	2.01	-0.87	-9.77e-03	2.17e-05	0.0
77	12	-1.52e-04	-1.63	0.48	7.44e-03	-2.12e-06	0.0
77	15	1.34e-03	1.34	-0.59	-6.54e-03	1.52e-05	0.0
77	19	6.99e-04	0.28	-0.19	-1.50e-03	7.83e-06	0.0
77	20	4.35e-04	-0.31	0.02	1.27e-03	4.74e-06	0.0

77	21	5.82e-04	0.02	-0.10	-2.65e-04	6.46e-06	0.0
78	7	0.0	1.19	-0.29	-7.39e-03	2.17e-05	0.0
78	8	0.0	-1.48	0.02	9.24e-03	-1.43e-06	0.0
78	15	0.0	0.79	-0.20	-4.93e-03	1.52e-05	0.0
78	16	0.0	-0.99	5.22e-03	6.16e-03	0.0	0.0
78	19	0.0	0.16	-0.10	-9.85e-04	7.83e-06	0.0
78	20	0.0	-0.20	-0.06	1.23e-03	4.74e-06	0.0
78	21	0.0	0.0	-0.09	0.0	6.46e-06	0.0
79	4	0.06	-0.67	-0.46	7.28e-03	3.39e-04	1.45e-03
79	6	0.10	-0.37	-0.37	4.84e-03	-4.92e-04	8.69e-04
79	8	0.08	-0.66	-0.49	7.45e-03	1.23e-04	1.45e-03
79	12	0.05	-0.45	-0.31	4.88e-03	1.74e-04	9.66e-04
79	14	0.07	-0.25	-0.25	3.25e-03	-3.80e-04	5.79e-04
79	16	0.06	-0.44	-0.33	4.99e-03	3.01e-05	9.66e-04
79	18	0.05	0.02	-0.07	3.09e-04	-5.48e-04	0.0
79	19	0.04	0.09	-0.02	-4.73e-04	-5.97e-04	-1.55e-04
79	20	0.04	-0.08	-0.11	1.19e-03	-3.58e-04	1.93e-04
79	21	0.04	0.02	-0.06	2.65e-04	-4.91e-04	0.0
80	4	-0.06	-2.34	0.71	0.01	3.39e-04	1.45e-03
80	6	-0.10	-1.37	0.33	6.24e-03	-4.92e-04	8.69e-04
80	7	-0.08	1.92	-0.75	-9.77e-03	-1.67e-03	-1.16e-03
80	12	-0.05	-1.56	0.47	7.44e-03	1.74e-04	9.66e-04
80	14	-0.07	-0.91	0.22	4.14e-03	-3.80e-04	5.79e-04
80	15	-0.06	1.28	-0.50	-6.54e-03	-1.17e-03	-7.73e-04
80	18	-0.05	0.02	-0.07	-3.09e-04	-5.48e-04	0.0
80	19	-0.04	0.27	-0.15	-1.50e-03	-5.97e-04	-1.55e-04
80	20	-0.04	-0.30	0.04	1.27e-03	-3.58e-04	1.93e-04
80	21	-0.04	0.02	-0.06	-2.65e-04	-4.91e-04	0.0
81	1	0.0	0.0	-0.03	3.54e-04	1.97e-03	0.0
81	4	0.0	0.0	0.16	-1.96e-03	-3.14e-03	0.0
81	5	0.0	0.0	-0.27	3.17e-03	0.01	0.0
81	9	0.0	0.0	-0.02	2.62e-04	1.47e-03	0.0
81	12	0.0	0.0	0.11	-1.28e-03	-1.94e-03	0.0
81	13	0.0	0.0	-0.18	2.14e-03	8.13e-03	0.0
81	17	0.0	0.0	-0.02	2.62e-04	1.47e-03	0.0
81	19	0.0	0.0	-0.04	5.09e-04	2.02e-03	0.0
81	20	0.0	0.0	3.57e-03	-4.68e-05	7.90e-04	0.0
81	21	0.0	0.0	-0.02	2.62e-04	1.47e-03	0.0
82	1	0.0	0.0	-0.28	6.28e-04	1.21e-03	0.0
82	4	0.0	0.0	0.50	-1.69e-03	-1.95e-03	0.0
82	5	0.0	0.0	-1.78	5.15e-03	7.38e-03	0.0
82	9	0.0	0.0	-0.20	4.62e-04	9.00e-04	0.0
82	12	0.0	0.0	0.31	-1.08e-03	-1.21e-03	0.0
82	13	0.0	0.0	-1.21	3.48e-03	5.01e-03	0.0
82	17	0.0	0.0	-0.20	4.62e-04	9.00e-04	0.0
82	18	0.0	0.0	-0.36	9.17e-04	1.52e-03	0.0
82	20	0.0	0.0	-0.10	1.54e-04	4.78e-04	0.0
82	21	0.0	0.0	-0.20	4.62e-04	9.00e-04	0.0
83	1	0.0	0.0	-0.03	-3.54e-04	1.97e-03	0.0
83	4	0.0	0.0	0.16	1.96e-03	-3.14e-03	0.0
83	5	0.0	0.0	-0.27	-3.17e-03	0.01	0.0
83	9	0.0	0.0	-0.02	-2.62e-04	1.47e-03	0.0
83	12	0.0	0.0	0.11	1.28e-03	-1.94e-03	0.0
83	13	0.0	0.0	-0.18	-2.14e-03	8.13e-03	0.0
83	17	0.0	0.0	-0.02	-2.62e-04	1.47e-03	0.0
83	19	0.0	0.0	-0.04	-5.09e-04	2.02e-03	0.0
83	20	0.0	0.0	3.57e-03	4.68e-05	7.90e-04	0.0
83	21	0.0	0.0	-0.02	-2.62e-04	1.47e-03	0.0
84	1	0.0	0.0	-0.28	-6.28e-04	1.21e-03	0.0
84	4	0.0	0.0	0.50	1.69e-03	-1.95e-03	0.0
84	5	0.0	0.0	-1.78	-5.15e-03	7.38e-03	0.0
84	9	0.0	0.0	-0.20	-4.62e-04	9.00e-04	0.0
84	12	0.0	0.0	0.31	1.08e-03	-1.21e-03	0.0
84	13	0.0	0.0	-1.21	-3.48e-03	5.01e-03	0.0
84	17	0.0	0.0	-0.20	-4.62e-04	9.00e-04	0.0
84	18	0.0	0.0	-0.36	-9.17e-04	1.52e-03	0.0
84	20	0.0	0.0	-0.10	-1.54e-04	4.78e-04	0.0
84	21	0.0	0.0	-0.20	-4.62e-04	9.00e-04	0.0
85	1	0.0	0.0	-8.52e-04	0.0	1.97e-03	0.0
85	4	0.0	0.0	1.70e-03	0.0	-3.14e-03	0.0
85	5	0.0	0.0	-4.95e-03	0.0	0.01	0.0
85	9	0.0	0.0	-6.38e-04	0.0	1.47e-03	0.0
85	12	0.0	0.0	1.07e-03	0.0	-1.94e-03	0.0
85	13	0.0	0.0	-3.37e-03	0.0	8.13e-03	0.0
85	17	0.0	0.0	-6.38e-04	0.0	1.47e-03	0.0
85	18	0.0	0.0	-1.02e-03	0.0	2.47e-03	0.0
85	20	0.0	0.0	-2.97e-04	0.0	7.90e-04	0.0

85	21	0.0	0.0	-6.38e-04	0.0	1.47e-03	0.0
86	1	0.0	0.0	-0.22	0.0	1.21e-03	0.0
86	4	0.0	0.0	0.36	0.0	-1.95e-03	0.0
86	5	0.0	0.0	-1.36	0.0	7.38e-03	0.0
86	9	0.0	0.0	-0.17	0.0	9.00e-04	0.0
86	12	0.0	0.0	0.22	0.0	-1.21e-03	0.0
86	13	0.0	0.0	-0.92	0.0	5.01e-03	0.0
86	17	0.0	0.0	-0.17	0.0	9.00e-04	0.0
86	18	0.0	0.0	-0.28	0.0	1.52e-03	0.0
86	20	0.0	0.0	-0.09	0.0	4.78e-04	0.0
86	21	0.0	0.0	-0.17	0.0	9.00e-04	0.0
87	1	0.0	0.0	-0.33	6.28e-04	-3.57e-04	0.0
87	4	0.0	0.0	0.59	-1.69e-03	5.70e-04	0.0
87	5	0.0	0.0	-2.13	5.15e-03	-2.17e-03	0.0
87	9	0.0	0.0	-0.25	4.62e-04	-2.67e-04	0.0
87	12	0.0	0.0	0.37	-1.08e-03	3.52e-04	0.0
87	13	0.0	0.0	-1.45	3.48e-03	-1.47e-03	0.0
87	17	0.0	0.0	-0.25	4.62e-04	-2.67e-04	0.0
87	18	0.0	0.0	-0.43	9.17e-04	-4.49e-04	0.0
87	20	0.0	0.0	-0.12	1.54e-04	-1.43e-04	0.0
87	21	0.0	0.0	-0.25	4.62e-04	-2.67e-04	0.0
88	1	0.0	0.0	-0.33	-6.28e-04	-3.57e-04	0.0
88	4	0.0	0.0	0.59	1.69e-03	5.70e-04	0.0
88	5	0.0	0.0	-2.13	-5.15e-03	-2.17e-03	0.0
88	9	0.0	0.0	-0.25	-4.62e-04	-2.67e-04	0.0
88	12	0.0	0.0	0.37	1.08e-03	3.52e-04	0.0
88	13	0.0	0.0	-1.45	-3.48e-03	-1.47e-03	0.0
88	17	0.0	0.0	-0.25	-4.62e-04	-2.67e-04	0.0
88	18	0.0	0.0	-0.43	-9.17e-04	-4.49e-04	0.0
88	20	0.0	0.0	-0.12	-1.54e-04	-1.43e-04	0.0
88	21	0.0	0.0	-0.25	-4.62e-04	-2.67e-04	0.0
89	1	0.0	0.0	-0.28	0.0	-3.57e-04	0.0
89	4	0.0	0.0	0.45	0.0	5.70e-04	0.0
89	5	0.0	0.0	-1.71	0.0	-2.17e-03	0.0
89	9	0.0	0.0	-0.21	0.0	-2.67e-04	0.0
89	12	0.0	0.0	0.28	0.0	3.52e-04	0.0
89	13	0.0	0.0	-1.16	0.0	-1.47e-03	0.0
89	17	0.0	0.0	-0.21	0.0	-2.67e-04	0.0
89	18	0.0	0.0	-0.35	0.0	-4.49e-04	0.0
89	20	0.0	0.0	-0.11	0.0	-1.43e-04	0.0
89	21	0.0	0.0	-0.21	0.0	-2.67e-04	0.0
90	1	0.0	0.0	-0.21	6.28e-04	-1.38e-03	0.0
90	4	0.0	0.0	0.39	-1.69e-03	2.23e-03	0.0
90	5	0.0	0.0	-1.36	5.15e-03	-8.44e-03	0.0
90	9	0.0	0.0	-0.15	4.62e-04	-1.03e-03	0.0
90	12	0.0	0.0	0.24	-1.08e-03	1.38e-03	0.0
90	13	0.0	0.0	-0.92	3.48e-03	-5.73e-03	0.0
90	17	0.0	0.0	-0.15	4.62e-04	-1.03e-03	0.0
90	18	0.0	0.0	-0.27	9.17e-04	-1.74e-03	0.0
90	20	0.0	0.0	-0.07	1.54e-04	-5.48e-04	0.0
90	21	0.0	0.0	-0.15	4.62e-04	-1.03e-03	0.0
91	1	0.0	0.0	-0.21	-6.28e-04	-1.38e-03	0.0
91	4	0.0	0.0	0.39	1.69e-03	2.23e-03	0.0
91	5	0.0	0.0	-1.36	-5.15e-03	-8.44e-03	0.0
91	9	0.0	0.0	-0.15	-4.62e-04	-1.03e-03	0.0
91	12	0.0	0.0	0.24	1.08e-03	1.38e-03	0.0
91	13	0.0	0.0	-0.92	-3.48e-03	-5.73e-03	0.0
91	17	0.0	0.0	-0.15	-4.62e-04	-1.03e-03	0.0
91	18	0.0	0.0	-0.27	-9.17e-04	-1.74e-03	0.0
91	20	0.0	0.0	-0.07	-1.54e-04	-5.48e-04	0.0
91	21	0.0	0.0	-0.15	-4.62e-04	-1.03e-03	0.0
92	1	0.0	0.0	-0.15	0.0	-1.38e-03	0.0
92	4	0.0	0.0	0.25	0.0	2.23e-03	0.0
92	5	0.0	0.0	-0.94	0.0	-8.44e-03	0.0
92	9	0.0	0.0	-0.11	0.0	-1.03e-03	0.0
92	12	0.0	0.0	0.15	0.0	1.38e-03	0.0
92	13	0.0	0.0	-0.64	0.0	-5.73e-03	0.0
92	17	0.0	0.0	-0.11	0.0	-1.03e-03	0.0
92	18	0.0	0.0	-0.19	0.0	-1.74e-03	0.0
92	20	0.0	0.0	-0.06	0.0	-5.48e-04	0.0
92	21	0.0	0.0	-0.11	0.0	-1.03e-03	0.0
93	1	0.0	0.0	-0.05	6.28e-04	-5.26e-04	0.0
93	4	0.0	0.0	0.14	-1.69e-03	8.39e-04	0.0
93	5	0.0	0.0	-0.44	5.15e-03	-3.19e-03	0.0
93	9	0.0	0.0	-0.04	4.62e-04	-3.93e-04	0.0
93	12	0.0	0.0	0.09	-1.08e-03	5.17e-04	0.0
93	13	0.0	0.0	-0.30	3.48e-03	-2.17e-03	0.0

93	17	0.0	0.0	-0.04	4.62e-04	-3.93e-04	0.0
93	18	0.0	0.0	-0.08	9.17e-04	-6.61e-04	0.0
93	20	0.0	0.0	-0.01	1.54e-04	-2.11e-04	0.0
93	21	0.0	0.0	-0.04	4.62e-04	-3.93e-04	0.0
94	1	0.0	0.0	-0.05	-6.28e-04	-5.26e-04	0.0
94	4	0.0	0.0	0.14	1.69e-03	8.39e-04	0.0
94	5	0.0	0.0	-0.44	-5.15e-03	-3.19e-03	0.0
94	9	0.0	0.0	-0.04	-4.62e-04	-3.93e-04	0.0
94	12	0.0	0.0	0.09	1.08e-03	5.17e-04	0.0
94	13	0.0	0.0	-0.30	-3.48e-03	-2.17e-03	0.0
94	17	0.0	0.0	-0.04	-4.62e-04	-3.93e-04	0.0
94	18	0.0	0.0	-0.08	-9.17e-04	-6.61e-04	0.0
94	20	0.0	0.0	-0.01	-1.54e-04	-2.11e-04	0.0
94	21	0.0	0.0	-0.04	-4.62e-04	-3.93e-04	0.0
95	1	0.0	0.0	-2.17e-03	0.0	-5.26e-04	0.0
95	4	0.0	0.0	3.30e-03	0.0	8.39e-04	0.0
95	5	0.0	0.0	-0.01	0.0	-3.19e-03	0.0
95	9	0.0	0.0	-1.62e-03	0.0	-3.93e-04	0.0
95	12	0.0	0.0	2.02e-03	0.0	5.17e-04	0.0
95	13	0.0	0.0	-8.75e-03	0.0	-2.17e-03	0.0
95	17	0.0	0.0	-1.62e-03	0.0	-3.93e-04	0.0
95	18	0.0	0.0	-2.70e-03	0.0	-6.61e-04	0.0
95	20	0.0	0.0	-8.93e-04	0.0	-2.11e-04	0.0
95	21	0.0	0.0	-1.62e-03	0.0	-3.93e-04	0.0
96	1	0.0	0.0	-0.08	6.28e-04	5.26e-04	0.0
96	4	0.0	0.0	0.18	-1.69e-03	-8.70e-04	0.0
96	5	0.0	0.0	-0.59	5.15e-03	3.25e-03	0.0
96	9	0.0	0.0	-0.06	4.62e-04	3.92e-04	0.0
96	12	0.0	0.0	0.12	-1.08e-03	-5.39e-04	0.0
96	13	0.0	0.0	-0.40	3.48e-03	2.21e-03	0.0
96	17	0.0	0.0	-0.06	4.62e-04	3.92e-04	0.0
96	18	0.0	0.0	-0.11	9.17e-04	6.66e-04	0.0
96	20	0.0	0.0	-0.02	1.54e-04	2.06e-04	0.0
96	21	0.0	0.0	-0.06	4.62e-04	3.92e-04	0.0
97	1	0.0	0.0	-0.08	-6.28e-04	5.26e-04	0.0
97	4	0.0	0.0	0.18	1.69e-03	-8.70e-04	0.0
97	5	0.0	0.0	-0.59	-5.15e-03	3.25e-03	0.0
97	9	0.0	0.0	-0.06	-4.62e-04	3.92e-04	0.0
97	12	0.0	0.0	0.12	1.08e-03	-5.39e-04	0.0
97	13	0.0	0.0	-0.40	-3.48e-03	2.21e-03	0.0
97	17	0.0	0.0	-0.06	-4.62e-04	3.92e-04	0.0
97	18	0.0	0.0	-0.11	-9.17e-04	6.66e-04	0.0
97	20	0.0	0.0	-0.02	-1.54e-04	2.06e-04	0.0
97	21	0.0	0.0	-0.06	-4.62e-04	3.92e-04	0.0
98	1	0.0	0.0	-0.03	0.0	5.26e-04	0.0
98	4	0.0	0.0	0.04	0.0	-8.70e-04	0.0
98	5	0.0	0.0	-0.16	0.0	3.25e-03	0.0
98	9	0.0	0.0	-0.02	0.0	3.92e-04	0.0
98	12	0.0	0.0	0.03	0.0	-5.39e-04	0.0
98	13	0.0	0.0	-0.11	0.0	2.21e-03	0.0
98	17	0.0	0.0	-0.02	0.0	3.92e-04	0.0
98	18	0.0	0.0	-0.03	0.0	6.66e-04	0.0
98	20	0.0	0.0	-9.77e-03	0.0	2.06e-04	0.0
98	21	0.0	0.0	-0.02	0.0	3.92e-04	0.0
99	1	0.0	0.0	-0.13	6.28e-04	9.57e-05	0.0
99	4	0.0	0.0	0.26	-1.69e-03	-1.53e-04	0.0
99	5	0.0	0.0	-0.89	5.15e-03	5.80e-04	0.0
99	9	0.0	0.0	-0.09	4.62e-04	7.14e-05	0.0
99	12	0.0	0.0	0.17	-1.08e-03	-9.41e-05	0.0
99	13	0.0	0.0	-0.60	3.48e-03	3.95e-04	0.0
99	17	0.0	0.0	-0.09	4.62e-04	7.14e-05	0.0
99	18	0.0	0.0	-0.17	9.17e-04	1.20e-04	0.0
99	20	0.0	0.0	-0.04	1.54e-04	3.83e-05	0.0
99	21	0.0	0.0	-0.09	4.62e-04	7.14e-05	0.0
100	1	0.0	0.0	-0.13	-6.28e-04	9.57e-05	0.0
100	4	0.0	0.0	0.26	1.69e-03	-1.53e-04	0.0
100	5	0.0	0.0	-0.89	-5.15e-03	5.80e-04	0.0
100	9	0.0	0.0	-0.09	-4.62e-04	7.14e-05	0.0
100	12	0.0	0.0	0.17	1.08e-03	-9.41e-05	0.0
100	13	0.0	0.0	-0.60	-3.48e-03	3.95e-04	0.0
100	17	0.0	0.0	-0.09	-4.62e-04	7.14e-05	0.0
100	18	0.0	0.0	-0.17	-9.17e-04	1.20e-04	0.0
100	20	0.0	0.0	-0.04	-1.54e-04	3.83e-05	0.0
100	21	0.0	0.0	-0.09	-4.62e-04	7.14e-05	0.0
101	1	0.0	0.0	-0.07	0.0	9.57e-05	0.0
101	4	0.0	0.0	0.12	0.0	-1.53e-04	0.0
101	5	0.0	0.0	-0.46	0.0	5.80e-04	0.0

101	9	0.0	0.0	-0.06	0.0	7.14e-05	0.0
101	12	0.0	0.0	0.08	0.0	-9.41e-05	0.0
101	13	0.0	0.0	-0.31	0.0	3.95e-04	0.0
101	17	0.0	0.0	-0.06	0.0	7.14e-05	0.0
101	18	0.0	0.0	-0.09	0.0	1.20e-04	0.0
101	20	0.0	0.0	-0.03	0.0	3.83e-05	0.0
101	21	0.0	0.0	-0.06	0.0	7.14e-05	0.0
102	1	0.0	0.0	-0.10	6.28e-04	-4.79e-04	0.0
102	4	0.0	0.0	0.21	-1.69e-03	7.95e-04	0.0
102	5	0.0	0.0	-0.70	5.15e-03	-2.97e-03	0.0
102	9	0.0	0.0	-0.07	4.62e-04	-3.57e-04	0.0
102	12	0.0	0.0	0.13	-1.08e-03	4.92e-04	0.0
102	13	0.0	0.0	-0.47	3.48e-03	-2.02e-03	0.0
102	17	0.0	0.0	-0.07	4.62e-04	-3.57e-04	0.0
102	18	0.0	0.0	-0.13	9.17e-04	-6.07e-04	0.0
102	20	0.0	0.0	-0.03	1.54e-04	-1.87e-04	0.0
102	21	0.0	0.0	-0.07	4.62e-04	-3.57e-04	0.0
103	1	0.0	0.0	-0.10	-6.28e-04	-4.79e-04	0.0
103	4	0.0	0.0	0.21	1.69e-03	7.95e-04	0.0
103	5	0.0	0.0	-0.70	-5.15e-03	-2.97e-03	0.0
103	9	0.0	0.0	-0.07	-4.62e-04	-3.57e-04	0.0
103	12	0.0	0.0	0.13	1.08e-03	4.92e-04	0.0
103	13	0.0	0.0	-0.47	-3.48e-03	-2.02e-03	0.0
103	17	0.0	0.0	-0.07	-4.62e-04	-3.57e-04	0.0
103	18	0.0	0.0	-0.13	-9.17e-04	-6.07e-04	0.0
103	20	0.0	0.0	-0.03	-1.54e-04	-1.87e-04	0.0
103	21	0.0	0.0	-0.07	-4.62e-04	-3.57e-04	0.0
104	1	0.0	0.0	-0.04	0.0	-4.79e-04	0.0
104	4	0.0	0.0	0.07	0.0	7.95e-04	0.0
104	5	0.0	0.0	-0.27	0.0	-2.97e-03	0.0
104	9	0.0	0.0	-0.03	0.0	-3.57e-04	0.0
104	12	0.0	0.0	0.05	0.0	4.92e-04	0.0
104	13	0.0	0.0	-0.19	0.0	-2.02e-03	0.0
104	17	0.0	0.0	-0.03	0.0	-3.57e-04	0.0
104	18	0.0	0.0	-0.06	0.0	-6.07e-04	0.0
104	20	0.0	0.0	-0.02	0.0	-1.87e-04	0.0
104	21	0.0	0.0	-0.03	0.0	-3.57e-04	0.0
105	1	0.0	0.0	-0.05	6.28e-04	1.40e-04	0.0
105	4	0.0	0.0	0.14	-1.69e-03	-2.23e-04	0.0
105	5	0.0	0.0	-0.44	5.15e-03	8.49e-04	0.0
105	9	0.0	0.0	-0.04	4.62e-04	1.04e-04	0.0
105	12	0.0	0.0	0.09	-1.08e-03	-1.38e-04	0.0
105	13	0.0	0.0	-0.29	3.48e-03	5.77e-04	0.0
105	17	0.0	0.0	-0.04	4.62e-04	1.04e-04	0.0
105	18	0.0	0.0	-0.08	9.17e-04	1.76e-04	0.0
105	20	0.0	0.0	-0.01	1.54e-04	5.61e-05	0.0
105	21	0.0	0.0	-0.04	4.62e-04	1.04e-04	0.0
106	1	0.0	0.0	-0.05	-6.28e-04	1.40e-04	0.0
106	4	0.0	0.0	0.14	1.69e-03	-2.23e-04	0.0
106	5	0.0	0.0	-0.44	-5.15e-03	8.49e-04	0.0
106	9	0.0	0.0	-0.04	-4.62e-04	1.04e-04	0.0
106	12	0.0	0.0	0.09	1.08e-03	-1.38e-04	0.0
106	13	0.0	0.0	-0.29	-3.48e-03	5.77e-04	0.0
106	17	0.0	0.0	-0.04	-4.62e-04	1.04e-04	0.0
106	18	0.0	0.0	-0.08	-9.17e-04	1.76e-04	0.0
106	20	0.0	0.0	-0.01	-1.54e-04	5.61e-05	0.0
106	21	0.0	0.0	-0.04	-4.62e-04	1.04e-04	0.0
107	1	0.0	0.0	-1.87e-03	0.0	1.40e-04	0.0
107	4	0.0	0.0	2.82e-03	0.0	-2.23e-04	0.0
107	5	0.0	0.0	-0.01	0.0	8.49e-04	0.0
107	9	0.0	0.0	-1.40e-03	0.0	1.04e-04	0.0
107	12	0.0	0.0	1.73e-03	0.0	-1.38e-04	0.0
107	13	0.0	0.0	-7.52e-03	0.0	5.77e-04	0.0
107	17	0.0	0.0	-1.40e-03	0.0	1.04e-04	0.0
107	18	0.0	0.0	-2.32e-03	0.0	1.76e-04	0.0
107	20	0.0	0.0	-7.73e-04	0.0	5.61e-05	0.0
107	21	0.0	0.0	-1.40e-03	0.0	1.04e-04	0.0
108	1	0.0	0.0	-0.13	6.28e-04	7.06e-04	0.0
108	4	0.0	0.0	0.27	-1.69e-03	-1.16e-03	0.0
108	5	0.0	0.0	-0.90	5.15e-03	4.35e-03	0.0
108	9	0.0	0.0	-0.10	4.62e-04	5.27e-04	0.0
108	12	0.0	0.0	0.17	-1.08e-03	-7.16e-04	0.0
108	13	0.0	0.0	-0.61	3.48e-03	2.95e-03	0.0
108	17	0.0	0.0	-0.10	4.62e-04	5.27e-04	0.0
108	18	0.0	0.0	-0.17	9.17e-04	8.93e-04	0.0
108	20	0.0	0.0	-0.04	1.54e-04	2.78e-04	0.0
108	21	0.0	0.0	-0.10	4.62e-04	5.27e-04	0.0

109	1	0.0	0.0	-0.13	-6.28e-04	7.06e-04	0.0
109	4	0.0	0.0	0.27	1.69e-03	-1.16e-03	0.0
109	5	0.0	0.0	-0.90	-5.15e-03	4.35e-03	0.0
109	9	0.0	0.0	-0.10	-4.62e-04	5.27e-04	0.0
109	12	0.0	0.0	0.17	1.08e-03	-7.16e-04	0.0
109	13	0.0	0.0	-0.61	-3.48e-03	2.95e-03	0.0
109	17	0.0	0.0	-0.10	-4.62e-04	5.27e-04	0.0
109	18	0.0	0.0	-0.17	-9.17e-04	8.93e-04	0.0
109	20	0.0	0.0	-0.04	-1.54e-04	2.78e-04	0.0
109	21	0.0	0.0	-0.10	-4.62e-04	5.27e-04	0.0
110	1	0.0	0.0	-0.08	0.0	7.06e-04	0.0
110	4	0.0	0.0	0.13	0.0	-1.16e-03	0.0
110	5	0.0	0.0	-0.48	0.0	4.35e-03	0.0
110	9	0.0	0.0	-0.06	0.0	5.27e-04	0.0
110	12	0.0	0.0	0.08	0.0	-7.16e-04	0.0
110	13	0.0	0.0	-0.33	0.0	2.95e-03	0.0
110	17	0.0	0.0	-0.06	0.0	5.27e-04	0.0
110	18	0.0	0.0	-0.10	0.0	8.93e-04	0.0
110	20	0.0	0.0	-0.03	0.0	2.78e-04	0.0
110	21	0.0	0.0	-0.06	0.0	5.27e-04	0.0
111	1	0.0	0.0	-0.18	6.28e-04	-2.60e-05	0.0
111	4	0.0	0.0	0.35	-1.69e-03	4.15e-05	0.0
111	5	0.0	0.0	-1.22	5.15e-03	-1.58e-04	0.0
111	9	0.0	0.0	-0.13	4.62e-04	-1.94e-05	0.0
111	12	0.0	0.0	0.22	-1.08e-03	2.56e-05	0.0
111	13	0.0	0.0	-0.83	3.48e-03	-1.07e-04	0.0
111	17	0.0	0.0	-0.13	4.62e-04	-1.94e-05	0.0
111	18	0.0	0.0	-0.24	9.17e-04	-3.27e-05	0.0
111	20	0.0	0.0	-0.06	1.54e-04	-1.04e-05	0.0
111	21	0.0	0.0	-0.13	4.62e-04	-1.94e-05	0.0
112	1	0.0	0.0	-0.18	-6.28e-04	-2.60e-05	0.0
112	4	0.0	0.0	0.35	1.69e-03	4.15e-05	0.0
112	5	0.0	0.0	-1.22	-5.15e-03	-1.58e-04	0.0
112	9	0.0	0.0	-0.13	-4.62e-04	-1.94e-05	0.0
112	12	0.0	0.0	0.22	1.08e-03	2.56e-05	0.0
112	13	0.0	0.0	-0.83	-3.48e-03	-1.07e-04	0.0
112	17	0.0	0.0	-0.13	-4.62e-04	-1.94e-05	0.0
112	18	0.0	0.0	-0.24	-9.17e-04	-3.27e-05	0.0
112	20	0.0	0.0	-0.06	-1.54e-04	-1.04e-05	0.0
112	21	0.0	0.0	-0.13	-4.62e-04	-1.94e-05	0.0
113	1	0.0	0.0	-0.13	0.0	-2.60e-05	0.0
113	4	0.0	0.0	0.21	0.0	4.15e-05	0.0
113	5	0.0	0.0	-0.79	0.0	-1.58e-04	0.0
113	9	0.0	0.0	-0.10	0.0	-1.94e-05	0.0
113	12	0.0	0.0	0.13	0.0	2.56e-05	0.0
113	13	0.0	0.0	-0.54	0.0	-1.07e-04	0.0
113	17	0.0	0.0	-0.10	0.0	-1.94e-05	0.0
113	18	0.0	0.0	-0.16	0.0	-3.27e-05	0.0
113	20	0.0	0.0	-0.05	0.0	-1.04e-05	0.0
113	21	0.0	0.0	-0.10	0.0	-1.94e-05	0.0
114	1	0.0	0.0	-0.12	6.28e-04	-7.19e-04	0.0
114	4	0.0	0.0	0.26	-1.69e-03	1.18e-03	0.0
114	5	0.0	0.0	-0.87	5.15e-03	-4.43e-03	0.0
114	9	0.0	0.0	-0.09	4.62e-04	-5.36e-04	0.0
114	12	0.0	0.0	0.16	-1.08e-03	7.29e-04	0.0
114	13	0.0	0.0	-0.59	3.48e-03	-3.01e-03	0.0
114	17	0.0	0.0	-0.09	4.62e-04	-5.36e-04	0.0
114	18	0.0	0.0	-0.17	9.17e-04	-9.09e-04	0.0
114	20	0.0	0.0	-0.04	1.54e-04	-2.83e-04	0.0
114	21	0.0	0.0	-0.09	4.62e-04	-5.36e-04	0.0
115	1	0.0	0.0	-0.12	-6.28e-04	-7.19e-04	0.0
115	4	0.0	0.0	0.26	1.69e-03	1.18e-03	0.0
115	5	0.0	0.0	-0.87	-5.15e-03	-4.43e-03	0.0
115	9	0.0	0.0	-0.09	-4.62e-04	-5.36e-04	0.0
115	12	0.0	0.0	0.16	1.08e-03	7.29e-04	0.0
115	13	0.0	0.0	-0.59	-3.48e-03	-3.01e-03	0.0
115	17	0.0	0.0	-0.09	-4.62e-04	-5.36e-04	0.0
115	18	0.0	0.0	-0.17	-9.17e-04	-9.09e-04	0.0
115	20	0.0	0.0	-0.04	-1.54e-04	-2.83e-04	0.0
115	21	0.0	0.0	-0.09	-4.62e-04	-5.36e-04	0.0
116	1	0.0	0.0	-0.07	0.0	-7.19e-04	0.0
116	4	0.0	0.0	0.12	0.0	1.18e-03	0.0
116	5	0.0	0.0	-0.45	0.0	-4.43e-03	0.0
116	9	0.0	0.0	-0.05	0.0	-5.36e-04	0.0
116	12	0.0	0.0	0.07	0.0	7.29e-04	0.0
116	13	0.0	0.0	-0.31	0.0	-3.01e-03	0.0
116	17	0.0	0.0	-0.05	0.0	-5.36e-04	0.0

116	18	0.0	0.0	-0.09	0.0	-9.09e-04	0.0
116	20	0.0	0.0	-0.03	0.0	-2.83e-04	0.0
116	21	0.0	0.0	-0.05	0.0	-5.36e-04	0.0
117	1	0.0	0.0	-0.05	6.28e-04	-3.49e-05	0.0
117	4	0.0	0.0	0.14	-1.69e-03	5.56e-05	0.0
117	5	0.0	0.0	-0.44	5.15e-03	-2.12e-04	0.0
117	9	0.0	0.0	-0.04	4.62e-04	-2.61e-05	0.0
117	12	0.0	0.0	0.09	-1.08e-03	3.43e-05	0.0
117	13	0.0	0.0	-0.29	3.48e-03	-1.44e-04	0.0
117	17	0.0	0.0	-0.04	4.62e-04	-2.61e-05	0.0
117	18	0.0	0.0	-0.08	9.17e-04	-4.38e-05	0.0
117	20	0.0	0.0	-0.01	1.54e-04	-1.40e-05	0.0
117	21	0.0	0.0	-0.04	4.62e-04	-2.61e-05	0.0
118	1	0.0	0.0	-0.05	-6.28e-04	-3.49e-05	0.0
118	4	0.0	0.0	0.14	1.69e-03	5.56e-05	0.0
118	5	0.0	0.0	-0.44	-5.15e-03	-2.12e-04	0.0
118	9	0.0	0.0	-0.04	-4.62e-04	-2.61e-05	0.0
118	12	0.0	0.0	0.09	1.08e-03	3.43e-05	0.0
118	13	0.0	0.0	-0.29	-3.48e-03	-1.44e-04	0.0
118	17	0.0	0.0	-0.04	-4.62e-04	-2.61e-05	0.0
118	18	0.0	0.0	-0.08	-9.17e-04	-4.38e-05	0.0
118	20	0.0	0.0	-0.01	-1.54e-04	-1.40e-05	0.0
118	21	0.0	0.0	-0.04	-4.62e-04	-2.61e-05	0.0
119	1	0.0	0.0	-1.95e-03	0.0	-3.49e-05	0.0
119	4	0.0	0.0	2.95e-03	0.0	5.56e-05	0.0
119	5	0.0	0.0	-0.01	0.0	-2.12e-04	0.0
119	9	0.0	0.0	-1.46e-03	0.0	-2.61e-05	0.0
119	12	0.0	0.0	1.81e-03	0.0	3.43e-05	0.0
119	13	0.0	0.0	-7.85e-03	0.0	-1.44e-04	0.0
119	17	0.0	0.0	-1.46e-03	0.0	-2.61e-05	0.0
119	18	0.0	0.0	-2.42e-03	0.0	-4.38e-05	0.0
119	20	0.0	0.0	-8.06e-04	0.0	-1.40e-05	0.0
119	21	0.0	0.0	-1.46e-03	0.0	-2.61e-05	0.0
120	1	0.0	0.0	-0.12	6.28e-04	6.62e-04	0.0
120	4	0.0	0.0	0.25	-1.69e-03	-1.09e-03	0.0
120	5	0.0	0.0	-0.82	5.15e-03	4.08e-03	0.0
120	9	0.0	0.0	-0.09	4.62e-04	4.94e-04	0.0
120	12	0.0	0.0	0.15	-1.08e-03	-6.73e-04	0.0
120	13	0.0	0.0	-0.56	3.48e-03	2.77e-03	0.0
120	17	0.0	0.0	-0.09	4.62e-04	4.94e-04	0.0
120	18	0.0	0.0	-0.16	9.17e-04	8.38e-04	0.0
120	20	0.0	0.0	-0.04	1.54e-04	2.61e-04	0.0
120	21	0.0	0.0	-0.09	4.62e-04	4.94e-04	0.0
121	1	0.0	0.0	-0.12	-6.28e-04	6.62e-04	0.0
121	4	0.0	0.0	0.25	1.69e-03	-1.09e-03	0.0
121	5	0.0	0.0	-0.82	-5.15e-03	4.08e-03	0.0
121	9	0.0	0.0	-0.09	-4.62e-04	4.94e-04	0.0
121	12	0.0	0.0	0.15	1.08e-03	-6.73e-04	0.0
121	13	0.0	0.0	-0.56	-3.48e-03	2.77e-03	0.0
121	17	0.0	0.0	-0.09	-4.62e-04	4.94e-04	0.0
121	18	0.0	0.0	-0.16	-9.17e-04	8.38e-04	0.0
121	20	0.0	0.0	-0.04	-1.54e-04	2.61e-04	0.0
121	21	0.0	0.0	-0.09	-4.62e-04	4.94e-04	0.0
122	1	0.0	0.0	-0.06	0.0	6.62e-04	0.0
122	4	0.0	0.0	0.11	0.0	-1.09e-03	0.0
122	5	0.0	0.0	-0.40	0.0	4.08e-03	0.0
122	9	0.0	0.0	-0.05	0.0	4.94e-04	0.0
122	12	0.0	0.0	0.07	0.0	-6.73e-04	0.0
122	13	0.0	0.0	-0.27	0.0	2.77e-03	0.0
122	17	0.0	0.0	-0.05	0.0	4.94e-04	0.0
122	18	0.0	0.0	-0.08	0.0	8.38e-04	0.0
122	20	0.0	0.0	-0.03	0.0	2.61e-04	0.0
122	21	0.0	0.0	-0.05	0.0	4.94e-04	0.0
123	1	0.0	0.0	-0.17	6.28e-04	8.65e-06	0.0
123	4	0.0	0.0	0.33	-1.69e-03	-1.38e-05	0.0
123	5	0.0	0.0	-1.14	5.15e-03	5.25e-05	0.0
123	9	0.0	0.0	-0.12	4.62e-04	6.46e-06	0.0
123	12	0.0	0.0	0.21	-1.08e-03	-8.50e-06	0.0
123	13	0.0	0.0	-0.77	3.48e-03	3.57e-05	0.0
123	17	0.0	0.0	-0.12	4.62e-04	6.46e-06	0.0
123	18	0.0	0.0	-0.22	9.17e-04	1.09e-05	0.0
123	20	0.0	0.0	-0.06	1.54e-04	3.46e-06	0.0
123	21	0.0	0.0	-0.12	4.62e-04	6.46e-06	0.0
124	1	0.0	0.0	-0.17	-6.28e-04	8.65e-06	0.0
124	4	0.0	0.0	0.33	1.69e-03	-1.38e-05	0.0
124	5	0.0	0.0	-1.14	-5.15e-03	5.25e-05	0.0
124	9	0.0	0.0	-0.12	-4.62e-04	6.46e-06	0.0

124	12	0.0	0.0	0.21	1.08e-03	-8.50e-06	0.0
124	13	0.0	0.0	-0.77	-3.48e-03	3.57e-05	0.0
124	17	0.0	0.0	-0.12	-4.62e-04	6.46e-06	0.0
124	18	0.0	0.0	-0.22	-9.17e-04	1.09e-05	0.0
124	20	0.0	0.0	-0.06	-1.54e-04	3.46e-06	0.0
124	21	0.0	0.0	-0.12	-4.62e-04	6.46e-06	0.0
125	1	0.0	0.0	-0.12	0.0	8.65e-06	0.0
125	4	0.0	0.0	0.19	0.0	-1.38e-05	0.0
125	5	0.0	0.0	-0.71	0.0	5.25e-05	0.0
125	9	0.0	0.0	-0.09	0.0	6.46e-06	0.0
125	12	0.0	0.0	0.12	0.0	-8.50e-06	0.0
125	13	0.0	0.0	-0.48	0.0	3.57e-05	0.0
125	17	0.0	0.0	-0.09	0.0	6.46e-06	0.0
125	18	0.0	0.0	-0.15	0.0	1.09e-05	0.0
125	20	0.0	0.0	-0.05	0.0	3.46e-06	0.0
125	21	0.0	0.0	-0.09	0.0	6.46e-06	0.0
126	1	0.0	0.0	-0.12	6.28e-04	-6.58e-04	0.0
126	4	0.0	0.0	0.25	-1.69e-03	1.08e-03	0.0
126	5	0.0	0.0	-0.83	5.15e-03	-4.06e-03	0.0
126	9	0.0	0.0	-0.09	4.62e-04	-4.91e-04	0.0
126	12	0.0	0.0	0.16	-1.08e-03	6.69e-04	0.0
126	13	0.0	0.0	-0.56	3.48e-03	-2.76e-03	0.0
126	17	0.0	0.0	-0.09	4.62e-04	-4.91e-04	0.0
126	18	0.0	0.0	-0.16	9.17e-04	-8.32e-04	0.0
126	20	0.0	0.0	-0.04	1.54e-04	-2.59e-04	0.0
126	21	0.0	0.0	-0.09	4.62e-04	-4.91e-04	0.0
127	1	0.0	0.0	-0.12	-6.28e-04	-6.58e-04	0.0
127	4	0.0	0.0	0.25	1.69e-03	1.08e-03	0.0
127	5	0.0	0.0	-0.83	-5.15e-03	-4.06e-03	0.0
127	9	0.0	0.0	-0.09	-4.62e-04	-4.91e-04	0.0
127	12	0.0	0.0	0.16	1.08e-03	6.69e-04	0.0
127	13	0.0	0.0	-0.56	-3.48e-03	-2.76e-03	0.0
127	17	0.0	0.0	-0.09	-4.62e-04	-4.91e-04	0.0
127	18	0.0	0.0	-0.16	-9.17e-04	-8.32e-04	0.0
127	20	0.0	0.0	-0.04	-1.54e-04	-2.59e-04	0.0
127	21	0.0	0.0	-0.09	-4.62e-04	-4.91e-04	0.0
128	1	0.0	0.0	-0.07	0.0	-6.58e-04	0.0
128	4	0.0	0.0	0.11	0.0	1.08e-03	0.0
128	5	0.0	0.0	-0.41	0.0	-4.06e-03	0.0
128	9	0.0	0.0	-0.05	0.0	-4.91e-04	0.0
128	12	0.0	0.0	0.07	0.0	6.69e-04	0.0
128	13	0.0	0.0	-0.28	0.0	-2.76e-03	0.0
128	17	0.0	0.0	-0.05	0.0	-4.91e-04	0.0
128	18	0.0	0.0	-0.08	0.0	-8.32e-04	0.0
128	20	0.0	0.0	-0.03	0.0	-2.59e-04	0.0
128	21	0.0	0.0	-0.05	0.0	-4.91e-04	0.0
129	1	0.0	0.0	-0.05	6.28e-04	0.0	0.0
129	4	0.0	0.0	0.14	-1.69e-03	0.0	0.0
129	5	0.0	0.0	-0.44	5.15e-03	0.0	0.0
129	9	0.0	0.0	-0.04	4.62e-04	0.0	0.0
129	12	0.0	0.0	0.09	-1.08e-03	0.0	0.0
129	13	0.0	0.0	-0.29	3.48e-03	0.0	0.0
129	17	0.0	0.0	-0.04	4.62e-04	0.0	0.0
129	18	0.0	0.0	-0.08	9.17e-04	0.0	0.0
129	20	0.0	0.0	-0.01	1.54e-04	0.0	0.0
129	21	0.0	0.0	-0.04	4.62e-04	0.0	0.0
130	1	0.0	0.0	-0.05	-6.28e-04	0.0	0.0
130	4	0.0	0.0	0.14	1.69e-03	0.0	0.0
130	5	0.0	0.0	-0.44	-5.15e-03	0.0	0.0
130	9	0.0	0.0	-0.04	-4.62e-04	0.0	0.0
130	12	0.0	0.0	0.09	1.08e-03	0.0	0.0
130	13	0.0	0.0	-0.29	-3.48e-03	0.0	0.0
130	17	0.0	0.0	-0.04	-4.62e-04	0.0	0.0
130	18	0.0	0.0	-0.08	-9.17e-04	0.0	0.0
130	20	0.0	0.0	-0.01	-1.54e-04	0.0	0.0
130	21	0.0	0.0	-0.04	-4.62e-04	0.0	0.0
131	1	0.0	0.0	-1.93e-03	0.0	0.0	0.0
131	4	0.0	0.0	2.91e-03	0.0	0.0	0.0
131	5	0.0	0.0	-0.01	0.0	0.0	0.0
131	9	0.0	0.0	-1.44e-03	0.0	0.0	0.0
131	12	0.0	0.0	1.78e-03	0.0	0.0	0.0
131	13	0.0	0.0	-7.74e-03	0.0	0.0	0.0
131	17	0.0	0.0	-1.44e-03	0.0	0.0	0.0
131	18	0.0	0.0	-2.39e-03	0.0	0.0	0.0
131	20	0.0	0.0	-7.95e-04	0.0	0.0	0.0
131	21	0.0	0.0	-1.44e-03	0.0	0.0	0.0
132	1	0.0	0.0	-0.12	6.28e-04	6.58e-04	0.0

132	4	0.0	0.0	0.25	-1.69e-03	-1.08e-03	0.0
132	5	0.0	0.0	-0.83	5.15e-03	4.06e-03	0.0
132	9	0.0	0.0	-0.09	4.62e-04	4.91e-04	0.0
132	12	0.0	0.0	0.16	-1.08e-03	-6.69e-04	0.0
132	13	0.0	0.0	-0.56	3.48e-03	2.76e-03	0.0
132	17	0.0	0.0	-0.09	4.62e-04	4.91e-04	0.0
132	18	0.0	0.0	-0.16	9.17e-04	8.32e-04	0.0
132	20	0.0	0.0	-0.04	1.54e-04	2.59e-04	0.0
132	21	0.0	0.0	-0.09	4.62e-04	4.91e-04	0.0
133	1	0.0	0.0	-0.12	-6.28e-04	6.58e-04	0.0
133	4	0.0	0.0	0.25	1.69e-03	-1.08e-03	0.0
133	5	0.0	0.0	-0.83	-5.15e-03	4.06e-03	0.0
133	9	0.0	0.0	-0.09	-4.62e-04	4.91e-04	0.0
133	12	0.0	0.0	0.16	1.08e-03	-6.69e-04	0.0
133	13	0.0	0.0	-0.56	-3.48e-03	2.76e-03	0.0
133	17	0.0	0.0	-0.09	-4.62e-04	4.91e-04	0.0
133	18	0.0	0.0	-0.16	-9.17e-04	8.32e-04	0.0
133	20	0.0	0.0	-0.04	-1.54e-04	2.59e-04	0.0
133	21	0.0	0.0	-0.09	-4.62e-04	4.91e-04	0.0
134	1	0.0	0.0	-0.07	0.0	6.58e-04	0.0
134	4	0.0	0.0	0.11	0.0	-1.08e-03	0.0
134	5	0.0	0.0	-0.41	0.0	4.06e-03	0.0
134	9	0.0	0.0	-0.05	0.0	4.91e-04	0.0
134	12	0.0	0.0	0.07	0.0	-6.69e-04	0.0
134	13	0.0	0.0	-0.28	0.0	2.76e-03	0.0
134	17	0.0	0.0	-0.05	0.0	4.91e-04	0.0
134	18	0.0	0.0	-0.08	0.0	8.32e-04	0.0
134	20	0.0	0.0	-0.03	0.0	2.59e-04	0.0
134	21	0.0	0.0	-0.05	0.0	4.91e-04	0.0
135	1	0.0	0.0	-0.17	6.28e-04	-8.65e-06	0.0
135	4	0.0	0.0	0.33	-1.69e-03	1.38e-05	0.0
135	5	0.0	0.0	-1.14	5.15e-03	-5.25e-05	0.0
135	9	0.0	0.0	-0.12	4.62e-04	-6.46e-06	0.0
135	12	0.0	0.0	0.21	-1.08e-03	8.50e-06	0.0
135	13	0.0	0.0	-0.77	3.48e-03	-3.57e-05	0.0
135	17	0.0	0.0	-0.12	4.62e-04	-6.46e-06	0.0
135	18	0.0	0.0	-0.22	9.17e-04	-1.09e-05	0.0
135	20	0.0	0.0	-0.06	1.54e-04	-3.46e-06	0.0
135	21	0.0	0.0	-0.12	4.62e-04	-6.46e-06	0.0
136	1	0.0	0.0	-0.17	-6.28e-04	-8.65e-06	0.0
136	4	0.0	0.0	0.33	1.69e-03	1.38e-05	0.0
136	5	0.0	0.0	-1.14	-5.15e-03	-5.25e-05	0.0
136	9	0.0	0.0	-0.12	-4.62e-04	-6.46e-06	0.0
136	12	0.0	0.0	0.21	1.08e-03	8.50e-06	0.0
136	13	0.0	0.0	-0.77	-3.48e-03	-3.57e-05	0.0
136	17	0.0	0.0	-0.12	-4.62e-04	-6.46e-06	0.0
136	18	0.0	0.0	-0.22	-9.17e-04	-1.09e-05	0.0
136	20	0.0	0.0	-0.06	-1.54e-04	-3.46e-06	0.0
136	21	0.0	0.0	-0.12	-4.62e-04	-6.46e-06	0.0
137	1	0.0	0.0	-0.12	0.0	-8.65e-06	0.0
137	4	0.0	0.0	0.19	0.0	1.38e-05	0.0
137	5	0.0	0.0	-0.71	0.0	-5.25e-05	0.0
137	9	0.0	0.0	-0.09	0.0	-6.46e-06	0.0
137	12	0.0	0.0	0.12	0.0	8.50e-06	0.0
137	13	0.0	0.0	-0.48	0.0	-3.57e-05	0.0
137	17	0.0	0.0	-0.09	0.0	-6.46e-06	0.0
137	18	0.0	0.0	-0.15	0.0	-1.09e-05	0.0
137	20	0.0	0.0	-0.05	0.0	-3.46e-06	0.0
137	21	0.0	0.0	-0.09	0.0	-6.46e-06	0.0
138	1	0.0	0.0	-0.12	6.28e-04	-6.62e-04	0.0
138	4	0.0	0.0	0.25	-1.69e-03	1.09e-03	0.0
138	5	0.0	0.0	-0.82	5.15e-03	-4.08e-03	0.0
138	9	0.0	0.0	-0.09	4.62e-04	-4.94e-04	0.0
138	12	0.0	0.0	0.15	-1.08e-03	6.73e-04	0.0
138	13	0.0	0.0	-0.56	3.48e-03	-2.77e-03	0.0
138	17	0.0	0.0	-0.09	4.62e-04	-4.94e-04	0.0
138	18	0.0	0.0	-0.16	9.17e-04	-8.38e-04	0.0
138	20	0.0	0.0	-0.04	1.54e-04	-2.61e-04	0.0
138	21	0.0	0.0	-0.09	4.62e-04	-4.94e-04	0.0
139	1	0.0	0.0	-0.12	-6.28e-04	-6.62e-04	0.0
139	4	0.0	0.0	0.25	1.69e-03	1.09e-03	0.0
139	5	0.0	0.0	-0.82	-5.15e-03	-4.08e-03	0.0
139	9	0.0	0.0	-0.09	-4.62e-04	-4.94e-04	0.0
139	12	0.0	0.0	0.15	1.08e-03	6.73e-04	0.0
139	13	0.0	0.0	-0.56	-3.48e-03	-2.77e-03	0.0
139	17	0.0	0.0	-0.09	-4.62e-04	-4.94e-04	0.0
139	18	0.0	0.0	-0.16	-9.17e-04	-8.38e-04	0.0

139	20	0.0	0.0	-0.04	-1.54e-04	-2.61e-04	0.0
139	21	0.0	0.0	-0.09	-4.62e-04	-4.94e-04	0.0
140	1	0.0	0.0	-0.06	0.0	-6.62e-04	0.0
140	4	0.0	0.0	0.11	0.0	1.09e-03	0.0
140	5	0.0	0.0	-0.40	0.0	-4.08e-03	0.0
140	9	0.0	0.0	-0.05	0.0	-4.94e-04	0.0
140	12	0.0	0.0	0.07	0.0	6.73e-04	0.0
140	13	0.0	0.0	-0.27	0.0	-2.77e-03	0.0
140	17	0.0	0.0	-0.05	0.0	-4.94e-04	0.0
140	18	0.0	0.0	-0.08	0.0	-8.38e-04	0.0
140	20	0.0	0.0	-0.03	0.0	-2.61e-04	0.0
140	21	0.0	0.0	-0.05	0.0	-4.94e-04	0.0
141	1	0.0	0.0	-0.05	6.28e-04	3.49e-05	0.0
141	4	0.0	0.0	0.14	-1.69e-03	-5.56e-05	0.0
141	5	0.0	0.0	-0.44	5.15e-03	2.12e-04	0.0
141	9	0.0	0.0	-0.04	4.62e-04	2.61e-05	0.0
141	12	0.0	0.0	0.09	-1.08e-03	-3.43e-05	0.0
141	13	0.0	0.0	-0.29	3.48e-03	1.44e-04	0.0
141	17	0.0	0.0	-0.04	4.62e-04	2.61e-05	0.0
141	18	0.0	0.0	-0.08	9.17e-04	4.38e-05	0.0
141	20	0.0	0.0	-0.01	1.54e-04	1.40e-05	0.0
141	21	0.0	0.0	-0.04	4.62e-04	2.61e-05	0.0
142	1	0.0	0.0	-0.05	-6.28e-04	3.49e-05	0.0
142	4	0.0	0.0	0.14	1.69e-03	-5.56e-05	0.0
142	5	0.0	0.0	-0.44	-5.15e-03	2.12e-04	0.0
142	9	0.0	0.0	-0.04	-4.62e-04	2.61e-05	0.0
142	12	0.0	0.0	0.09	1.08e-03	-3.43e-05	0.0
142	13	0.0	0.0	-0.29	-3.48e-03	1.44e-04	0.0
142	17	0.0	0.0	-0.04	-4.62e-04	2.61e-05	0.0
142	18	0.0	0.0	-0.08	-9.17e-04	4.38e-05	0.0
142	20	0.0	0.0	-0.01	-1.54e-04	1.40e-05	0.0
142	21	0.0	0.0	-0.04	-4.62e-04	2.61e-05	0.0
143	1	0.0	0.0	-1.95e-03	0.0	3.49e-05	0.0
143	4	0.0	0.0	2.95e-03	0.0	-5.56e-05	0.0
143	5	0.0	0.0	-0.01	0.0	2.12e-04	0.0
143	9	0.0	0.0	-1.46e-03	0.0	2.61e-05	0.0
143	12	0.0	0.0	1.81e-03	0.0	-3.43e-05	0.0
143	13	0.0	0.0	-7.85e-03	0.0	1.44e-04	0.0
143	17	0.0	0.0	-1.46e-03	0.0	2.61e-05	0.0
143	18	0.0	0.0	-2.42e-03	0.0	4.38e-05	0.0
143	20	0.0	0.0	-8.06e-04	0.0	1.40e-05	0.0
143	21	0.0	0.0	-1.46e-03	0.0	2.61e-05	0.0
144	1	0.0	0.0	-0.12	6.28e-04	7.19e-04	0.0
144	4	0.0	0.0	0.26	-1.69e-03	-1.18e-03	0.0
144	5	0.0	0.0	-0.87	5.15e-03	4.43e-03	0.0
144	9	0.0	0.0	-0.09	4.62e-04	5.36e-04	0.0
144	12	0.0	0.0	0.16	-1.08e-03	-7.29e-04	0.0
144	13	0.0	0.0	-0.59	3.48e-03	3.01e-03	0.0
144	17	0.0	0.0	-0.09	4.62e-04	5.36e-04	0.0
144	18	0.0	0.0	-0.17	9.17e-04	9.09e-04	0.0
144	20	0.0	0.0	-0.04	1.54e-04	2.83e-04	0.0
144	21	0.0	0.0	-0.09	4.62e-04	5.36e-04	0.0
145	1	0.0	0.0	-0.12	-6.28e-04	7.19e-04	0.0
145	4	0.0	0.0	0.26	1.69e-03	-1.18e-03	0.0
145	5	0.0	0.0	-0.87	-5.15e-03	4.43e-03	0.0
145	9	0.0	0.0	-0.09	-4.62e-04	5.36e-04	0.0
145	12	0.0	0.0	0.16	1.08e-03	-7.29e-04	0.0
145	13	0.0	0.0	-0.59	-3.48e-03	3.01e-03	0.0
145	17	0.0	0.0	-0.09	-4.62e-04	5.36e-04	0.0
145	18	0.0	0.0	-0.17	-9.17e-04	9.09e-04	0.0
145	20	0.0	0.0	-0.04	-1.54e-04	2.83e-04	0.0
145	21	0.0	0.0	-0.09	-4.62e-04	5.36e-04	0.0
146	1	0.0	0.0	-0.07	0.0	7.19e-04	0.0
146	4	0.0	0.0	0.12	0.0	-1.18e-03	0.0
146	5	0.0	0.0	-0.45	0.0	4.43e-03	0.0
146	9	0.0	0.0	-0.05	0.0	5.36e-04	0.0
146	12	0.0	0.0	0.07	0.0	-7.29e-04	0.0
146	13	0.0	0.0	-0.31	0.0	3.01e-03	0.0
146	17	0.0	0.0	-0.05	0.0	5.36e-04	0.0
146	18	0.0	0.0	-0.09	0.0	9.09e-04	0.0
146	20	0.0	0.0	-0.03	0.0	2.83e-04	0.0
146	21	0.0	0.0	-0.05	0.0	5.36e-04	0.0
147	1	0.0	0.0	-0.18	6.28e-04	2.60e-05	0.0
147	4	0.0	0.0	0.35	-1.69e-03	-4.15e-05	0.0
147	5	0.0	0.0	-1.22	5.15e-03	1.58e-04	0.0
147	9	0.0	0.0	-0.13	4.62e-04	1.94e-05	0.0
147	12	0.0	0.0	0.22	-1.08e-03	-2.56e-05	0.0

147	13	0.0	0.0	-0.83	3.48e-03	1.07e-04	0.0
147	17	0.0	0.0	-0.13	4.62e-04	1.94e-05	0.0
147	18	0.0	0.0	-0.24	9.17e-04	3.27e-05	0.0
147	20	0.0	0.0	-0.06	1.54e-04	1.04e-05	0.0
147	21	0.0	0.0	-0.13	4.62e-04	1.94e-05	0.0
148	1	0.0	0.0	-0.18	-6.28e-04	2.60e-05	0.0
148	4	0.0	0.0	0.35	1.69e-03	-4.15e-05	0.0
148	5	0.0	0.0	-1.22	-5.15e-03	1.58e-04	0.0
148	9	0.0	0.0	-0.13	-4.62e-04	1.94e-05	0.0
148	12	0.0	0.0	0.22	1.08e-03	-2.56e-05	0.0
148	13	0.0	0.0	-0.83	-3.48e-03	1.07e-04	0.0
148	17	0.0	0.0	-0.13	-4.62e-04	1.94e-05	0.0
148	18	0.0	0.0	-0.24	-9.17e-04	3.27e-05	0.0
148	20	0.0	0.0	-0.06	-1.54e-04	1.04e-05	0.0
148	21	0.0	0.0	-0.13	-4.62e-04	1.94e-05	0.0
149	1	0.0	0.0	-0.13	0.0	2.60e-05	0.0
149	4	0.0	0.0	0.21	0.0	-4.15e-05	0.0
149	5	0.0	0.0	-0.79	0.0	1.58e-04	0.0
149	9	0.0	0.0	-0.10	0.0	1.94e-05	0.0
149	12	0.0	0.0	0.13	0.0	-2.56e-05	0.0
149	13	0.0	0.0	-0.54	0.0	1.07e-04	0.0
149	17	0.0	0.0	-0.10	0.0	1.94e-05	0.0
149	18	0.0	0.0	-0.16	0.0	3.27e-05	0.0
149	20	0.0	0.0	-0.05	0.0	1.04e-05	0.0
149	21	0.0	0.0	-0.10	0.0	1.94e-05	0.0
150	1	0.0	0.0	-0.13	6.28e-04	-7.06e-04	0.0
150	4	0.0	0.0	0.27	-1.69e-03	1.16e-03	0.0
150	5	0.0	0.0	-0.90	5.15e-03	-4.35e-03	0.0
150	9	0.0	0.0	-0.10	4.62e-04	-5.27e-04	0.0
150	12	0.0	0.0	0.17	-1.08e-03	7.16e-04	0.0
150	13	0.0	0.0	-0.61	3.48e-03	-2.95e-03	0.0
150	17	0.0	0.0	-0.10	4.62e-04	-5.27e-04	0.0
150	18	0.0	0.0	-0.17	9.17e-04	-8.93e-04	0.0
150	20	0.0	0.0	-0.04	1.54e-04	-2.78e-04	0.0
150	21	0.0	0.0	-0.10	4.62e-04	-5.27e-04	0.0
151	1	0.0	0.0	-0.13	-6.28e-04	-7.06e-04	0.0
151	4	0.0	0.0	0.27	1.69e-03	1.16e-03	0.0
151	5	0.0	0.0	-0.90	-5.15e-03	-4.35e-03	0.0
151	9	0.0	0.0	-0.10	-4.62e-04	-5.27e-04	0.0
151	12	0.0	0.0	0.17	1.08e-03	7.16e-04	0.0
151	13	0.0	0.0	-0.61	-3.48e-03	-2.95e-03	0.0
151	17	0.0	0.0	-0.10	-4.62e-04	-5.27e-04	0.0
151	18	0.0	0.0	-0.17	-9.17e-04	-8.93e-04	0.0
151	20	0.0	0.0	-0.04	-1.54e-04	-2.78e-04	0.0
151	21	0.0	0.0	-0.10	-4.62e-04	-5.27e-04	0.0
152	1	0.0	0.0	-0.08	0.0	-7.06e-04	0.0
152	4	0.0	0.0	0.13	0.0	1.16e-03	0.0
152	5	0.0	0.0	-0.48	0.0	-4.35e-03	0.0
152	9	0.0	0.0	-0.06	0.0	-5.27e-04	0.0
152	12	0.0	0.0	0.08	0.0	7.16e-04	0.0
152	13	0.0	0.0	-0.33	0.0	-2.95e-03	0.0
152	17	0.0	0.0	-0.06	0.0	-5.27e-04	0.0
152	18	0.0	0.0	-0.10	0.0	-8.93e-04	0.0
152	20	0.0	0.0	-0.03	0.0	-2.78e-04	0.0
152	21	0.0	0.0	-0.06	0.0	-5.27e-04	0.0
153	1	0.0	0.0	-0.05	6.28e-04	-1.40e-04	0.0
153	4	0.0	0.0	0.14	-1.69e-03	2.23e-04	0.0
153	5	0.0	0.0	-0.44	5.15e-03	-8.49e-04	0.0
153	9	0.0	0.0	-0.04	4.62e-04	-1.04e-04	0.0
153	12	0.0	0.0	0.09	-1.08e-03	1.38e-04	0.0
153	13	0.0	0.0	-0.29	3.48e-03	-5.77e-04	0.0
153	17	0.0	0.0	-0.04	4.62e-04	-1.04e-04	0.0
153	18	0.0	0.0	-0.08	9.17e-04	-1.76e-04	0.0
153	20	0.0	0.0	-0.01	1.54e-04	-5.61e-05	0.0
153	21	0.0	0.0	-0.04	4.62e-04	-1.04e-04	0.0
154	1	0.0	0.0	-0.05	-6.28e-04	-1.40e-04	0.0
154	4	0.0	0.0	0.14	1.69e-03	2.23e-04	0.0
154	5	0.0	0.0	-0.44	-5.15e-03	-8.49e-04	0.0
154	9	0.0	0.0	-0.04	-4.62e-04	-1.04e-04	0.0
154	12	0.0	0.0	0.09	1.08e-03	1.38e-04	0.0
154	13	0.0	0.0	-0.29	-3.48e-03	-5.77e-04	0.0
154	17	0.0	0.0	-0.04	-4.62e-04	-1.04e-04	0.0
154	18	0.0	0.0	-0.08	-9.17e-04	-1.76e-04	0.0
154	20	0.0	0.0	-0.01	-1.54e-04	-5.61e-05	0.0
154	21	0.0	0.0	-0.04	-4.62e-04	-1.04e-04	0.0
155	1	0.0	0.0	-1.87e-03	0.0	-1.40e-04	0.0
155	4	0.0	0.0	2.82e-03	0.0	2.23e-04	0.0

155	5	0.0	0.0	-0.01	0.0	-8.49e-04	0.0
155	9	0.0	0.0	-1.40e-03	0.0	-1.04e-04	0.0
155	12	0.0	0.0	1.73e-03	0.0	1.38e-04	0.0
155	13	0.0	0.0	-7.52e-03	0.0	-5.77e-04	0.0
155	17	0.0	0.0	-1.40e-03	0.0	-1.04e-04	0.0
155	18	0.0	0.0	-2.32e-03	0.0	-1.76e-04	0.0
155	20	0.0	0.0	-7.73e-04	0.0	-5.61e-05	0.0
155	21	0.0	0.0	-1.40e-03	0.0	-1.04e-04	0.0
156	1	0.0	0.0	-0.10	6.28e-04	4.79e-04	0.0
156	4	0.0	0.0	0.21	-1.69e-03	-7.95e-04	0.0
156	5	0.0	0.0	-0.70	5.15e-03	2.97e-03	0.0
156	9	0.0	0.0	-0.07	4.62e-04	3.57e-04	0.0
156	12	0.0	0.0	0.13	-1.08e-03	-4.92e-04	0.0
156	13	0.0	0.0	-0.47	3.48e-03	2.02e-03	0.0
156	17	0.0	0.0	-0.07	4.62e-04	3.57e-04	0.0
156	18	0.0	0.0	-0.13	9.17e-04	6.07e-04	0.0
156	20	0.0	0.0	-0.03	1.54e-04	1.87e-04	0.0
156	21	0.0	0.0	-0.07	4.62e-04	3.57e-04	0.0
157	1	0.0	0.0	-0.10	-6.28e-04	4.79e-04	0.0
157	4	0.0	0.0	0.21	1.69e-03	-7.95e-04	0.0
157	5	0.0	0.0	-0.70	-5.15e-03	2.97e-03	0.0
157	9	0.0	0.0	-0.07	-4.62e-04	3.57e-04	0.0
157	12	0.0	0.0	0.13	1.08e-03	-4.92e-04	0.0
157	13	0.0	0.0	-0.47	-3.48e-03	2.02e-03	0.0
157	17	0.0	0.0	-0.07	-4.62e-04	3.57e-04	0.0
157	18	0.0	0.0	-0.13	-9.17e-04	6.07e-04	0.0
157	20	0.0	0.0	-0.03	-1.54e-04	1.87e-04	0.0
157	21	0.0	0.0	-0.07	-4.62e-04	3.57e-04	0.0
158	1	0.0	0.0	-0.04	0.0	4.79e-04	0.0
158	4	0.0	0.0	0.07	0.0	-7.95e-04	0.0
158	5	0.0	0.0	-0.27	0.0	2.97e-03	0.0
158	9	0.0	0.0	-0.03	0.0	3.57e-04	0.0
158	12	0.0	0.0	0.05	0.0	-4.92e-04	0.0
158	13	0.0	0.0	-0.19	0.0	2.02e-03	0.0
158	17	0.0	0.0	-0.03	0.0	3.57e-04	0.0
158	18	0.0	0.0	-0.06	0.0	6.07e-04	0.0
158	20	0.0	0.0	-0.02	0.0	1.87e-04	0.0
158	21	0.0	0.0	-0.03	0.0	3.57e-04	0.0
159	1	0.0	0.0	-0.13	6.28e-04	-9.57e-05	0.0
159	4	0.0	0.0	0.26	-1.69e-03	1.53e-04	0.0
159	5	0.0	0.0	-0.89	5.15e-03	-5.80e-04	0.0
159	9	0.0	0.0	-0.09	4.62e-04	-7.14e-05	0.0
159	12	0.0	0.0	0.17	-1.08e-03	9.41e-05	0.0
159	13	0.0	0.0	-0.60	3.48e-03	-3.95e-04	0.0
159	17	0.0	0.0	-0.09	4.62e-04	-7.14e-05	0.0
159	18	0.0	0.0	-0.17	9.17e-04	-1.20e-04	0.0
159	20	0.0	0.0	-0.04	1.54e-04	-3.83e-05	0.0
159	21	0.0	0.0	-0.09	4.62e-04	-7.14e-05	0.0
160	1	0.0	0.0	-0.13	-6.28e-04	-9.57e-05	0.0
160	4	0.0	0.0	0.26	1.69e-03	1.53e-04	0.0
160	5	0.0	0.0	-0.89	-5.15e-03	-5.80e-04	0.0
160	9	0.0	0.0	-0.09	-4.62e-04	-7.14e-05	0.0
160	12	0.0	0.0	0.17	1.08e-03	9.41e-05	0.0
160	13	0.0	0.0	-0.60	-3.48e-03	-3.95e-04	0.0
160	17	0.0	0.0	-0.09	-4.62e-04	-7.14e-05	0.0
160	18	0.0	0.0	-0.17	-9.17e-04	-1.20e-04	0.0
160	20	0.0	0.0	-0.04	-1.54e-04	-3.83e-05	0.0
160	21	0.0	0.0	-0.09	-4.62e-04	-7.14e-05	0.0
161	1	0.0	0.0	-0.07	0.0	-9.57e-05	0.0
161	4	0.0	0.0	0.12	0.0	1.53e-04	0.0
161	5	0.0	0.0	-0.46	0.0	-5.80e-04	0.0
161	9	0.0	0.0	-0.06	0.0	-7.14e-05	0.0
161	12	0.0	0.0	0.08	0.0	9.41e-05	0.0
161	13	0.0	0.0	-0.31	0.0	-3.95e-04	0.0
161	17	0.0	0.0	-0.06	0.0	-7.14e-05	0.0
161	18	0.0	0.0	-0.09	0.0	-1.20e-04	0.0
161	20	0.0	0.0	-0.03	0.0	-3.83e-05	0.0
161	21	0.0	0.0	-0.06	0.0	-7.14e-05	0.0
162	1	0.0	0.0	-0.08	6.28e-04	-5.26e-04	0.0
162	4	0.0	0.0	0.18	-1.69e-03	8.70e-04	0.0
162	5	0.0	0.0	-0.59	5.15e-03	-3.25e-03	0.0
162	9	0.0	0.0	-0.06	4.62e-04	-3.92e-04	0.0
162	12	0.0	0.0	0.12	-1.08e-03	5.39e-04	0.0
162	13	0.0	0.0	-0.40	3.48e-03	-2.21e-03	0.0
162	17	0.0	0.0	-0.06	4.62e-04	-3.92e-04	0.0
162	18	0.0	0.0	-0.11	9.17e-04	-6.66e-04	0.0
162	20	0.0	0.0	-0.02	1.54e-04	-2.06e-04	0.0

162	21	0.0	0.0	-0.06	4.62e-04	-3.92e-04	0.0
163	1	0.0	0.0	-0.08	-6.28e-04	-5.26e-04	0.0
163	4	0.0	0.0	0.18	1.69e-03	8.70e-04	0.0
163	5	0.0	0.0	-0.59	-5.15e-03	-3.25e-03	0.0
163	9	0.0	0.0	-0.06	-4.62e-04	-3.92e-04	0.0
163	12	0.0	0.0	0.12	1.08e-03	5.39e-04	0.0
163	13	0.0	0.0	-0.40	-3.48e-03	-2.21e-03	0.0
163	17	0.0	0.0	-0.06	-4.62e-04	-3.92e-04	0.0
163	18	0.0	0.0	-0.11	-9.17e-04	-6.66e-04	0.0
163	20	0.0	0.0	-0.02	-1.54e-04	-2.06e-04	0.0
163	21	0.0	0.0	-0.06	-4.62e-04	-3.92e-04	0.0
164	1	0.0	0.0	-0.03	0.0	-5.26e-04	0.0
164	4	0.0	0.0	0.04	0.0	8.70e-04	0.0
164	5	0.0	0.0	-0.16	0.0	-3.25e-03	0.0
164	9	0.0	0.0	-0.02	0.0	-3.92e-04	0.0
164	12	0.0	0.0	0.03	0.0	5.39e-04	0.0
164	13	0.0	0.0	-0.11	0.0	-2.21e-03	0.0
164	17	0.0	0.0	-0.02	0.0	-3.92e-04	0.0
164	18	0.0	0.0	-0.03	0.0	-6.66e-04	0.0
164	20	0.0	0.0	-9.77e-03	0.0	-2.06e-04	0.0
164	21	0.0	0.0	-0.02	0.0	-3.92e-04	0.0
165	1	0.0	0.0	-0.05	6.28e-04	5.26e-04	0.0
165	4	0.0	0.0	0.14	-1.69e-03	-8.39e-04	0.0
165	5	0.0	0.0	-0.44	5.15e-03	3.19e-03	0.0
165	9	0.0	0.0	-0.04	4.62e-04	3.93e-04	0.0
165	12	0.0	0.0	0.09	-1.08e-03	-5.17e-04	0.0
165	13	0.0	0.0	-0.30	3.48e-03	2.17e-03	0.0
165	17	0.0	0.0	-0.04	4.62e-04	3.93e-04	0.0
165	18	0.0	0.0	-0.08	9.17e-04	6.61e-04	0.0
165	20	0.0	0.0	-0.01	1.54e-04	2.11e-04	0.0
165	21	0.0	0.0	-0.04	4.62e-04	3.93e-04	0.0
166	1	0.0	0.0	-0.05	-6.28e-04	5.26e-04	0.0
166	4	0.0	0.0	0.14	1.69e-03	-8.39e-04	0.0
166	5	0.0	0.0	-0.44	-5.15e-03	3.19e-03	0.0
166	9	0.0	0.0	-0.04	-4.62e-04	3.93e-04	0.0
166	12	0.0	0.0	0.09	1.08e-03	-5.17e-04	0.0
166	13	0.0	0.0	-0.30	-3.48e-03	2.17e-03	0.0
166	17	0.0	0.0	-0.04	-4.62e-04	3.93e-04	0.0
166	18	0.0	0.0	-0.08	-9.17e-04	6.61e-04	0.0
166	20	0.0	0.0	-0.01	-1.54e-04	2.11e-04	0.0
166	21	0.0	0.0	-0.04	-4.62e-04	3.93e-04	0.0
167	1	0.0	0.0	-2.17e-03	0.0	5.26e-04	0.0
167	4	0.0	0.0	3.30e-03	0.0	-8.39e-04	0.0
167	5	0.0	0.0	-0.01	0.0	3.19e-03	0.0
167	9	0.0	0.0	-1.62e-03	0.0	3.93e-04	0.0
167	12	0.0	0.0	2.02e-03	0.0	-5.17e-04	0.0
167	13	0.0	0.0	-8.75e-03	0.0	2.17e-03	0.0
167	17	0.0	0.0	-1.62e-03	0.0	3.93e-04	0.0
167	18	0.0	0.0	-2.70e-03	0.0	6.61e-04	0.0
167	20	0.0	0.0	-8.93e-04	0.0	2.11e-04	0.0
167	21	0.0	0.0	-1.62e-03	0.0	3.93e-04	0.0
168	1	0.0	0.0	-0.21	6.28e-04	1.38e-03	0.0
168	4	0.0	0.0	0.39	-1.69e-03	-2.23e-03	0.0
168	5	0.0	0.0	-1.36	5.15e-03	8.44e-03	0.0
168	9	0.0	0.0	-0.15	4.62e-04	1.03e-03	0.0
168	12	0.0	0.0	0.24	-1.08e-03	-1.38e-03	0.0
168	13	0.0	0.0	-0.92	3.48e-03	5.73e-03	0.0
168	17	0.0	0.0	-0.15	4.62e-04	1.03e-03	0.0
168	18	0.0	0.0	-0.27	9.17e-04	1.74e-03	0.0
168	20	0.0	0.0	-0.07	1.54e-04	5.48e-04	0.0
168	21	0.0	0.0	-0.15	4.62e-04	1.03e-03	0.0
169	1	0.0	0.0	-0.21	-6.28e-04	1.38e-03	0.0
169	4	0.0	0.0	0.39	1.69e-03	-2.23e-03	0.0
169	5	0.0	0.0	-1.36	-5.15e-03	8.44e-03	0.0
169	9	0.0	0.0	-0.15	-4.62e-04	1.03e-03	0.0
169	12	0.0	0.0	0.24	1.08e-03	-1.38e-03	0.0
169	13	0.0	0.0	-0.92	-3.48e-03	5.73e-03	0.0
169	17	0.0	0.0	-0.15	-4.62e-04	1.03e-03	0.0
169	18	0.0	0.0	-0.27	-9.17e-04	1.74e-03	0.0
169	20	0.0	0.0	-0.07	-1.54e-04	5.48e-04	0.0
169	21	0.0	0.0	-0.15	-4.62e-04	1.03e-03	0.0
170	1	0.0	0.0	-0.15	0.0	1.38e-03	0.0
170	4	0.0	0.0	0.25	0.0	-2.23e-03	0.0
170	5	0.0	0.0	-0.94	0.0	8.44e-03	0.0
170	9	0.0	0.0	-0.11	0.0	1.03e-03	0.0
170	12	0.0	0.0	0.15	0.0	-1.38e-03	0.0
170	13	0.0	0.0	-0.64	0.0	5.73e-03	0.0

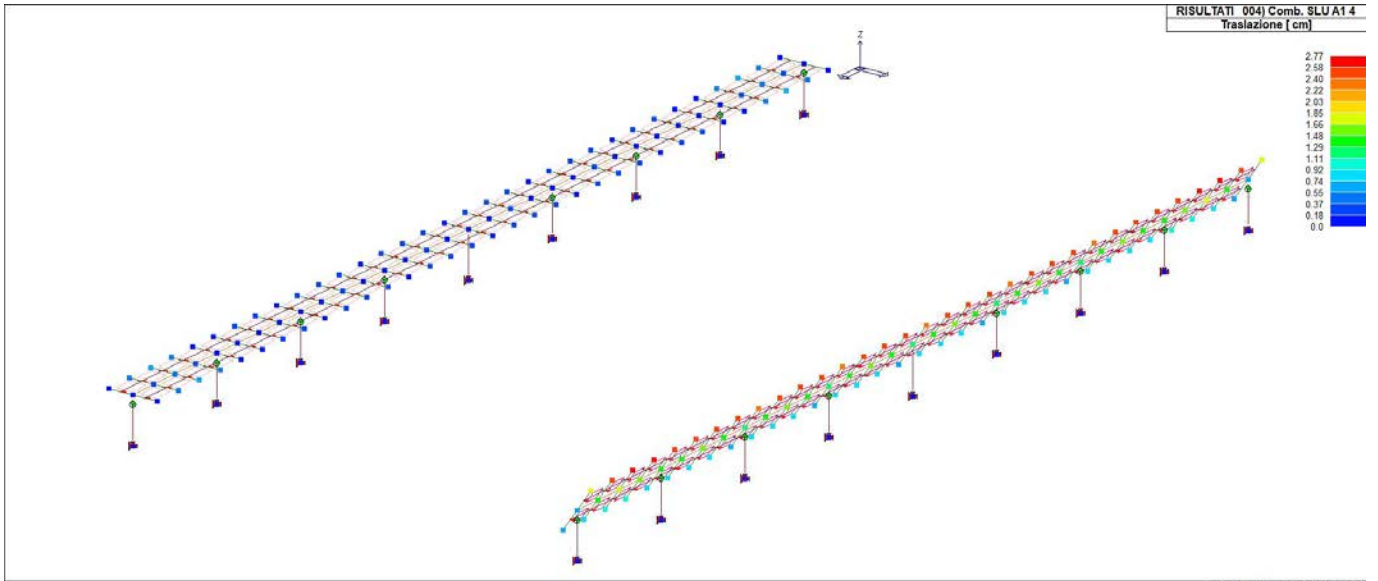
170	17	0.0	0.0	-0.11	0.0	1.03e-03	0.0
170	18	0.0	0.0	-0.19	0.0	1.74e-03	0.0
170	20	0.0	0.0	-0.06	0.0	5.48e-04	0.0
170	21	0.0	0.0	-0.11	0.0	1.03e-03	0.0
171	1	0.0	0.0	-0.33	6.28e-04	3.57e-04	0.0
171	4	0.0	0.0	0.59	-1.69e-03	-5.70e-04	0.0
171	5	0.0	0.0	-2.13	5.15e-03	2.17e-03	0.0
171	9	0.0	0.0	-0.25	4.62e-04	2.67e-04	0.0
171	12	0.0	0.0	0.37	-1.08e-03	-3.52e-04	0.0
171	13	0.0	0.0	-1.45	3.48e-03	1.47e-03	0.0
171	17	0.0	0.0	-0.25	4.62e-04	2.67e-04	0.0
171	18	0.0	0.0	-0.43	9.17e-04	4.49e-04	0.0
171	20	0.0	0.0	-0.12	1.54e-04	1.43e-04	0.0
171	21	0.0	0.0	-0.25	4.62e-04	2.67e-04	0.0
172	1	0.0	0.0	-0.33	-6.28e-04	3.57e-04	0.0
172	4	0.0	0.0	0.59	1.69e-03	-5.70e-04	0.0
172	5	0.0	0.0	-2.13	-5.15e-03	2.17e-03	0.0
172	9	0.0	0.0	-0.25	-4.62e-04	2.67e-04	0.0
172	12	0.0	0.0	0.37	1.08e-03	-3.52e-04	0.0
172	13	0.0	0.0	-1.45	-3.48e-03	1.47e-03	0.0
172	17	0.0	0.0	-0.25	-4.62e-04	2.67e-04	0.0
172	18	0.0	0.0	-0.43	-9.17e-04	4.49e-04	0.0
172	20	0.0	0.0	-0.12	-1.54e-04	1.43e-04	0.0
172	21	0.0	0.0	-0.25	-4.62e-04	2.67e-04	0.0
173	1	0.0	0.0	-0.28	0.0	3.57e-04	0.0
173	4	0.0	0.0	0.45	0.0	-5.70e-04	0.0
173	5	0.0	0.0	-1.71	0.0	2.17e-03	0.0
173	9	0.0	0.0	-0.21	0.0	2.67e-04	0.0
173	12	0.0	0.0	0.28	0.0	-3.52e-04	0.0
173	13	0.0	0.0	-1.16	0.0	1.47e-03	0.0
173	17	0.0	0.0	-0.21	0.0	2.67e-04	0.0
173	18	0.0	0.0	-0.35	0.0	4.49e-04	0.0
173	20	0.0	0.0	-0.11	0.0	1.43e-04	0.0
173	21	0.0	0.0	-0.21	0.0	2.67e-04	0.0
174	1	0.0	0.0	-0.28	6.28e-04	-1.21e-03	0.0
174	4	0.0	0.0	0.50	-1.69e-03	1.95e-03	0.0
174	5	0.0	0.0	-1.78	5.15e-03	-7.38e-03	0.0
174	9	0.0	0.0	-0.20	4.62e-04	-9.00e-04	0.0
174	12	0.0	0.0	0.31	-1.08e-03	1.21e-03	0.0
174	13	0.0	0.0	-1.21	3.48e-03	-5.01e-03	0.0
174	17	0.0	0.0	-0.20	4.62e-04	-9.00e-04	0.0
174	18	0.0	0.0	-0.36	9.17e-04	-1.52e-03	0.0
174	20	0.0	0.0	-0.10	1.54e-04	-4.78e-04	0.0
174	21	0.0	0.0	-0.20	4.62e-04	-9.00e-04	0.0
175	1	0.0	0.0	-0.28	-6.28e-04	-1.21e-03	0.0
175	4	0.0	0.0	0.50	1.69e-03	1.95e-03	0.0
175	5	0.0	0.0	-1.78	-5.15e-03	-7.38e-03	0.0
175	9	0.0	0.0	-0.20	-4.62e-04	-9.00e-04	0.0
175	12	0.0	0.0	0.31	1.08e-03	1.21e-03	0.0
175	13	0.0	0.0	-1.21	-3.48e-03	-5.01e-03	0.0
175	17	0.0	0.0	-0.20	-4.62e-04	-9.00e-04	0.0
175	18	0.0	0.0	-0.36	-9.17e-04	-1.52e-03	0.0
175	20	0.0	0.0	-0.10	-1.54e-04	-4.78e-04	0.0
175	21	0.0	0.0	-0.20	-4.62e-04	-9.00e-04	0.0
176	1	0.0	0.0	-0.22	0.0	-1.21e-03	0.0
176	4	0.0	0.0	0.36	0.0	1.95e-03	0.0
176	5	0.0	0.0	-1.36	0.0	-7.38e-03	0.0
176	9	0.0	0.0	-0.17	0.0	-9.00e-04	0.0
176	12	0.0	0.0	0.22	0.0	1.21e-03	0.0
176	13	0.0	0.0	-0.92	0.0	-5.01e-03	0.0
176	17	0.0	0.0	-0.17	0.0	-9.00e-04	0.0
176	18	0.0	0.0	-0.28	0.0	-1.52e-03	0.0
176	20	0.0	0.0	-0.09	0.0	-4.78e-04	0.0
176	21	0.0	0.0	-0.17	0.0	-9.00e-04	0.0
177	1	0.0	0.0	-0.03	3.54e-04	-1.97e-03	0.0
177	4	0.0	0.0	0.16	-1.96e-03	3.14e-03	0.0
177	5	0.0	0.0	-0.27	3.17e-03	-0.01	0.0
177	9	0.0	0.0	-0.02	2.62e-04	-1.47e-03	0.0
177	12	0.0	0.0	0.11	-1.28e-03	1.94e-03	0.0
177	13	0.0	0.0	-0.18	2.14e-03	-8.13e-03	0.0
177	17	0.0	0.0	-0.02	2.62e-04	-1.47e-03	0.0
177	19	0.0	0.0	-0.04	5.09e-04	-2.02e-03	0.0
177	20	0.0	0.0	3.57e-03	-4.68e-05	-7.90e-04	0.0
177	21	0.0	0.0	-0.02	2.62e-04	-1.47e-03	0.0
178	1	0.0	0.0	-0.03	-3.54e-04	-1.97e-03	0.0
178	4	0.0	0.0	0.16	1.96e-03	3.14e-03	0.0
178	5	0.0	0.0	-0.27	-3.17e-03	-0.01	0.0

178	9	0.0	0.0	-0.02	-2.62e-04	-1.47e-03	0.0
178	12	0.0	0.0	0.11	1.28e-03	1.94e-03	0.0
178	13	0.0	0.0	-0.18	-2.14e-03	-8.13e-03	0.0
178	17	0.0	0.0	-0.02	-2.62e-04	-1.47e-03	0.0
178	19	0.0	0.0	-0.04	-5.09e-04	-2.02e-03	0.0
178	20	0.0	0.0	3.57e-03	4.68e-05	-7.90e-04	0.0
178	21	0.0	0.0	-0.02	-2.62e-04	-1.47e-03	0.0
179	1	0.0	0.0	-8.52e-04	0.0	-1.97e-03	0.0
179	4	0.0	0.0	1.70e-03	0.0	3.14e-03	0.0
179	5	0.0	0.0	-4.95e-03	0.0	-0.01	0.0
179	9	0.0	0.0	-6.38e-04	0.0	-1.47e-03	0.0
179	12	0.0	0.0	1.07e-03	0.0	1.94e-03	0.0
179	13	0.0	0.0	-3.37e-03	0.0	-8.13e-03	0.0
179	17	0.0	0.0	-6.38e-04	0.0	-1.47e-03	0.0
179	18	0.0	0.0	-1.02e-03	0.0	-2.47e-03	0.0
179	20	0.0	0.0	-2.97e-04	0.0	-7.90e-04	0.0
179	21	0.0	0.0	-6.38e-04	0.0	-1.47e-03	0.0
180	7	0.0	1.10	-0.17	-7.39e-03	-1.67e-03	-1.16e-03
180	8	0.0	-1.37	0.01	9.24e-03	1.23e-04	1.45e-03
180	15	0.0	0.73	-0.12	-4.93e-03	-1.17e-03	-7.73e-04
180	16	0.0	-0.92	2.95e-03	6.16e-03	3.01e-05	9.66e-04
180	19	0.0	0.15	-0.06	-9.85e-04	-5.97e-04	-1.55e-04
180	20	0.0	-0.18	-0.04	1.23e-03	-3.58e-04	1.93e-04
180	21	0.0	0.0	-0.05	0.0	-4.91e-04	0.0
181	4	0.0	-0.53	-0.49	7.28e-03	0.0	0.0
181	7	0.0	0.48	0.35	-5.01e-03	0.0	0.0
181	8	0.0	-0.52	-0.50	7.45e-03	0.0	0.0
181	12	0.0	-0.35	-0.33	4.88e-03	0.0	0.0
181	15	0.0	0.32	0.23	-3.32e-03	0.0	0.0
181	16	0.0	-0.35	-0.33	4.99e-03	0.0	0.0
181	19	0.0	0.08	0.04	-4.73e-04	0.0	0.0
181	20	0.0	-0.06	-0.08	1.19e-03	0.0	0.0
181	21	0.0	0.02	-0.01	2.65e-04	0.0	0.0
182	4	0.0	-2.20	0.68	0.01	0.0	0.0
182	7	0.0	1.81	-0.58	-9.77e-03	0.0	0.0
182	12	0.0	-1.46	0.45	7.44e-03	0.0	0.0
182	15	0.0	1.21	-0.39	-6.54e-03	0.0	0.0
182	19	0.0	0.25	-0.09	-1.50e-03	0.0	0.0
182	20	0.0	-0.28	0.08	1.27e-03	0.0	0.0
182	21	0.0	0.02	-0.01	-2.65e-04	0.0	0.0
183	1	0.0	0.0	0.0	0.0	0.0	0.0
183	9	0.0	0.0	0.0	0.0	0.0	0.0
183	17	0.0	0.0	0.0	0.0	0.0	0.0
183	21	0.0	0.0	0.0	0.0	0.0	0.0
184	7	0.0	0.99	-4.75e-03	-7.39e-03	0.0	0.0
184	8	0.0	-1.23	2.45e-04	9.24e-03	0.0	0.0
184	15	0.0	0.66	-3.32e-03	-4.93e-03	0.0	0.0
184	16	0.0	-0.82	8.70e-06	6.16e-03	0.0	0.0
184	19	0.0	0.13	-1.74e-03	-9.85e-04	0.0	0.0
184	20	0.0	-0.16	-1.07e-03	1.23e-03	0.0	0.0
184	21	0.0	0.0	-1.44e-03	0.0	0.0	0.0
185	1	0.0	0.0	0.0	0.0	0.0	0.0
185	9	0.0	0.0	0.0	0.0	0.0	0.0
185	17	0.0	0.0	0.0	0.0	0.0	0.0
185	21	0.0	0.0	0.0	0.0	0.0	0.0
186	4	-0.06	-0.67	-0.46	7.28e-03	-3.39e-04	-1.45e-03
186	6	-0.10	-0.37	-0.37	4.84e-03	4.92e-04	-8.69e-04
186	8	-0.08	-0.66	-0.49	7.45e-03	-1.23e-04	-1.45e-03
186	12	-0.05	-0.45	-0.31	4.88e-03	-1.74e-04	-9.66e-04
186	14	-0.07	-0.25	-0.25	3.25e-03	3.80e-04	-5.79e-04
186	16	-0.06	-0.44	-0.33	4.99e-03	-3.01e-05	-9.66e-04
186	18	-0.05	0.02	-0.07	3.09e-04	5.48e-04	0.0
186	19	-0.04	0.09	-0.02	-4.73e-04	5.97e-04	1.55e-04
186	20	-0.04	-0.08	-0.11	1.19e-03	3.58e-04	-1.93e-04
186	21	-0.04	0.02	-0.06	2.65e-04	4.91e-04	0.0
187	4	0.06	-2.34	0.71	0.01	-3.39e-04	-1.45e-03
187	6	0.10	-1.37	0.33	6.24e-03	4.92e-04	-8.69e-04
187	7	0.08	1.92	-0.75	-9.77e-03	1.67e-03	1.16e-03
187	12	0.05	-1.56	0.47	7.44e-03	-1.74e-04	-9.66e-04
187	14	0.07	-0.91	0.22	4.14e-03	3.80e-04	-5.79e-04
187	15	0.06	1.28	-0.50	-6.54e-03	1.17e-03	7.73e-04
187	18	0.05	0.02	-0.07	-3.09e-04	5.48e-04	0.0
187	19	0.04	0.27	-0.15	-1.50e-03	5.97e-04	1.55e-04
187	20	0.04	-0.30	0.04	1.27e-03	3.58e-04	-1.93e-04
187	21	0.04	0.02	-0.06	-2.65e-04	4.91e-04	0.0
188	1	0.0	0.0	0.0	0.0	0.0	0.0
188	9	0.0	0.0	0.0	0.0	0.0	0.0

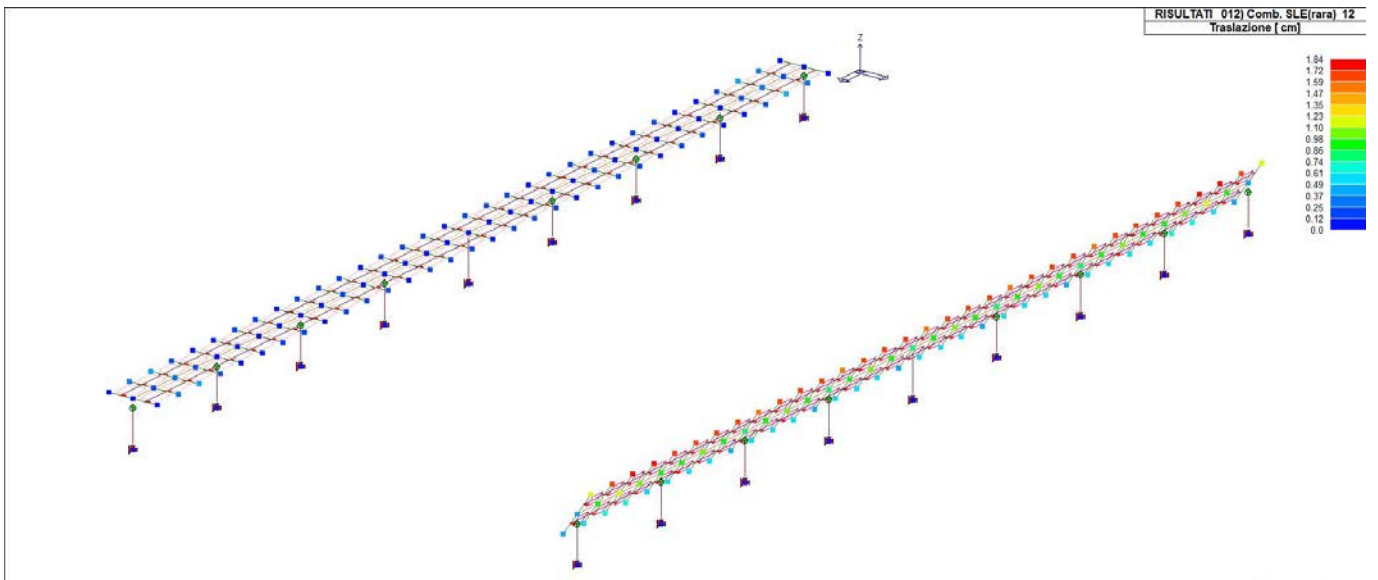
188	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
188	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
189	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
189	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
189	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
189	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
192	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
192	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
192	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
192	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
193	7	0.0	1.10	-0.17	-7.39e-03	1.67e-03	1.16e-03	0.0
193	8	0.0	-1.37	0.01	9.24e-03	-1.23e-04	-1.45e-03	0.0
193	15	0.0	0.73	-0.12	-4.93e-03	1.17e-03	7.73e-04	0.0
193	16	0.0	-0.92	2.95e-03	6.16e-03	-3.01e-05	-9.66e-04	0.0
193	19	0.0	0.15	-0.06	-9.85e-04	5.97e-04	1.55e-04	0.0
193	20	0.0	-0.18	-0.04	1.23e-03	3.58e-04	-1.93e-04	0.0
193	21	0.0	0.0	-0.05	0.0	4.91e-04	0.0	0.0
194	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
194	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
194	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
194	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
195	4	-3.20e-04	-0.78	-0.43	7.28e-03	4.22e-06	0.0	0.0
195	7	1.91e-03	0.68	0.06	-5.01e-03	-2.17e-05	0.0	0.0
195	8	-6.93e-05	-0.77	-0.48	7.45e-03	1.43e-06	0.0	0.0
195	12	-1.52e-04	-0.52	-0.30	4.88e-03	2.12e-06	0.0	0.0
195	15	1.34e-03	0.46	0.03	-3.32e-03	-1.52e-05	0.0	0.0
195	16	1.58e-05	-0.51	-0.33	4.99e-03	0.0	0.0	0.0
195	19	6.99e-04	0.10	-0.07	-4.73e-04	-7.83e-06	0.0	0.0
195	20	4.35e-04	-0.09	-0.14	1.19e-03	-4.74e-06	0.0	0.0
195	21	5.82e-04	0.02	-0.10	2.65e-04	-6.46e-06	0.0	0.0
196	4	3.20e-04	-2.45	0.73	0.01	4.22e-06	0.0	0.0
196	7	-1.91e-03	2.01	-0.87	-9.77e-03	-2.17e-05	0.0	0.0
196	12	1.52e-04	-1.63	0.48	7.44e-03	-2.12e-06	0.0	0.0
196	15	-1.34e-03	1.34	-0.59	-6.54e-03	-1.52e-05	0.0	0.0
196	19	-6.99e-04	0.28	-0.19	-1.50e-03	-7.83e-06	0.0	0.0
196	20	-4.35e-04	-0.31	0.02	1.27e-03	-4.74e-06	0.0	0.0
196	21	-5.82e-04	0.02	-0.10	-2.65e-04	-6.46e-06	0.0	0.0
197	7	0.0	1.19	-0.29	-7.39e-03	-2.17e-05	0.0	0.0
197	8	0.0	-1.48	0.02	9.24e-03	1.43e-06	0.0	0.0
197	15	0.0	0.79	-0.20	-4.93e-03	-1.52e-05	0.0	0.0
197	16	0.0	-0.99	5.22e-03	6.16e-03	0.0	0.0	0.0
197	19	0.0	0.16	-0.10	-9.85e-04	-7.83e-06	0.0	0.0
197	20	0.0	-0.20	-0.06	1.23e-03	-4.74e-06	0.0	0.0
197	21	0.0	0.0	-0.09	0.0	-6.46e-06	0.0	0.0
198	4	0.06	-0.67	-0.46	7.28e-03	3.41e-04	1.45e-03	0.0
198	6	0.10	-0.37	-0.37	4.84e-03	-4.95e-04	8.72e-04	0.0
198	8	0.08	-0.66	-0.49	7.45e-03	1.24e-04	1.45e-03	0.0
198	12	0.05	-0.45	-0.31	4.88e-03	1.75e-04	9.69e-04	0.0
198	14	0.07	-0.25	-0.25	3.25e-03	-3.82e-04	5.81e-04	0.0
198	16	0.06	-0.44	-0.33	4.99e-03	3.02e-05	9.69e-04	0.0
198	18	0.05	0.02	-0.07	3.09e-04	-5.52e-04	0.0	0.0
198	19	0.04	0.09	-0.02	-4.73e-04	-6.01e-04	-1.55e-04	0.0
198	20	0.04	-0.08	-0.11	1.19e-03	-3.60e-04	1.94e-04	0.0
198	21	0.04	0.02	-0.06	2.65e-04	-4.94e-04	0.0	0.0
199	4	-0.06	-2.34	0.71	0.01	3.41e-04	1.45e-03	0.0
199	6	-0.10	-1.37	0.33	6.24e-03	-4.95e-04	8.72e-04	0.0
199	7	-0.08	1.92	-0.74	-9.77e-03	-1.68e-03	-1.16e-03	0.0
199	12	-0.05	-1.56	0.47	7.44e-03	1.75e-04	9.69e-04	0.0
199	14	-0.07	-0.91	0.22	4.14e-03	-3.82e-04	5.81e-04	0.0
199	15	-0.06	1.28	-0.50	-6.54e-03	-1.17e-03	-7.75e-04	0.0
199	18	-0.05	0.02	-0.07	-3.09e-04	-5.52e-04	0.0	0.0
199	19	-0.04	0.27	-0.15	-1.50e-03	-6.01e-04	-1.55e-04	0.0
199	20	-0.04	-0.30	0.04	1.27e-03	-3.60e-04	1.94e-04	0.0
199	21	-0.04	0.02	-0.06	-2.65e-04	-4.94e-04	0.0	0.0
200	7	0.0	1.10	-0.16	-7.39e-03	-1.68e-03	-1.16e-03	0.0
200	8	0.0	-1.37	0.01	9.24e-03	1.24e-04	1.45e-03	0.0
200	15	0.0	0.73	-0.11	-4.93e-03	-1.17e-03	-7.75e-04	0.0
200	16	0.0	-0.91	2.90e-03	6.16e-03	3.02e-05	9.69e-04	0.0
200	19	0.0	0.15	-0.06	-9.85e-04	-6.01e-04	-1.55e-04	0.0

200	20	0.0	-0.18	-0.04	1.23e-03	-3.60e-04	1.94e-04
200	21	0.0	0.0	-0.05	0.0	-4.94e-04	0.0
201	4	2.26e-03	-0.53	-0.49	7.28e-03	-1.70e-05	1.16e-05
201	7	-8.49e-03	0.48	0.35	-5.01e-03	8.77e-05	-9.25e-06
201	8	1.25e-03	-0.52	-0.50	7.45e-03	-5.78e-06	1.16e-05
201	12	1.26e-03	-0.35	-0.33	4.88e-03	-8.57e-06	7.71e-06
201	15	-5.91e-03	0.32	0.23	-3.32e-03	6.13e-05	-6.17e-06
201	16	5.83e-04	-0.34	-0.33	4.99e-03	-1.07e-06	7.71e-06
201	19	-2.93e-03	0.08	0.04	-4.73e-04	3.16e-05	-1.23e-06
201	20	-1.63e-03	-0.06	-0.08	1.19e-03	1.91e-05	1.54e-06
201	21	-2.35e-03	0.02	-0.01	2.65e-04	2.61e-05	0.0
202	4	-2.26e-03	-2.19	0.68	0.01	-1.70e-05	1.16e-05
202	7	8.49e-03	1.81	-0.58	-9.77e-03	8.77e-05	-9.25e-06
202	12	-1.26e-03	-1.46	0.45	7.44e-03	-8.57e-06	7.71e-06
202	15	5.91e-03	1.21	-0.39	-6.54e-03	6.13e-05	-6.17e-06
202	19	2.93e-03	0.25	-0.09	-1.50e-03	3.16e-05	-1.23e-06
202	20	1.63e-03	-0.28	0.08	1.27e-03	1.91e-05	1.54e-06
202	21	2.35e-03	0.02	-0.01	-2.65e-04	2.61e-05	0.0
203	7	0.0	0.98	-4.82e-03	-7.39e-03	8.77e-05	-9.25e-06
203	8	0.0	-1.23	2.50e-04	9.24e-03	-5.78e-06	1.16e-05
203	15	0.0	0.66	-3.37e-03	-4.93e-03	6.13e-05	-6.17e-06
203	16	0.0	-0.82	9.53e-06	6.16e-03	-1.07e-06	7.71e-06
203	19	0.0	0.13	-1.76e-03	-9.85e-04	3.16e-05	-1.23e-06
203	20	0.0	-0.16	-1.08e-03	1.23e-03	1.91e-05	1.54e-06
203	21	0.0	0.0	-1.46e-03	0.0	2.61e-05	0.0
204	7	0.0	1.09	-0.20	-7.39e-03	-1.79e-03	-1.17e-03
204	8	0.0	-1.37	0.01	9.24e-03	1.31e-04	1.46e-03
204	15	0.0	0.73	-0.14	-4.93e-03	-1.25e-03	-7.78e-04
204	16	0.0	-0.91	3.32e-03	6.16e-03	3.16e-05	9.73e-04
204	19	0.0	0.15	-0.07	-9.85e-04	-6.41e-04	-1.56e-04
204	20	0.0	-0.18	-0.04	1.23e-03	-3.84e-04	1.95e-04
204	21	0.0	0.0	-0.06	0.0	-5.27e-04	0.0
205	4	2.19e-03	-0.78	-0.42	7.28e-03	-1.27e-05	1.66e-05
205	7	-6.73e-03	0.68	0.03	-5.01e-03	6.54e-05	-1.33e-05
205	8	1.43e-03	-0.77	-0.47	7.45e-03	-4.31e-06	1.66e-05
205	12	1.27e-03	-0.52	-0.29	4.88e-03	-6.39e-06	1.10e-05
205	15	-4.67e-03	0.45	5.68e-03	-3.32e-03	4.57e-05	-8.84e-06
205	16	7.69e-04	-0.51	-0.33	4.99e-03	0.0	1.10e-05
205	19	-2.23e-03	0.10	-0.08	-4.73e-04	2.36e-05	-1.77e-06
205	20	-1.15e-03	-0.09	-0.15	1.19e-03	1.43e-05	2.21e-06
205	21	-1.75e-03	0.02	-0.11	2.65e-04	1.94e-05	0.0
206	7	0.0	1.10	-0.19	-7.39e-03	1.83e-03	1.14e-03
206	8	0.0	-1.37	0.01	9.24e-03	-1.33e-04	-1.43e-03
206	15	0.0	0.73	-0.13	-4.93e-03	1.27e-03	7.63e-04
206	16	0.0	-0.91	3.16e-03	6.16e-03	-3.20e-05	-9.54e-04
206	19	0.0	0.15	-0.07	-9.85e-04	6.52e-04	1.53e-04
206	20	0.0	-0.18	-0.04	1.23e-03	3.91e-04	-1.91e-04
206	21	0.0	0.0	-0.05	0.0	5.36e-04	0.0
207	4	-2.19e-03	-2.44	0.74	0.01	-1.27e-05	1.66e-05
207	7	6.73e-03	2.01	-0.91	-9.77e-03	6.54e-05	-1.33e-05
207	12	-1.27e-03	-1.63	0.48	7.44e-03	-6.39e-06	1.10e-05
207	15	4.67e-03	1.34	-0.62	-6.54e-03	4.57e-05	-8.84e-06
207	19	2.23e-03	0.28	-0.20	-1.50e-03	2.36e-05	-1.77e-06
207	20	1.15e-03	-0.31	9.30e-03	1.27e-03	1.43e-05	2.21e-06
207	21	1.75e-03	0.02	-0.11	-2.65e-04	1.94e-05	0.0
208	7	0.0	1.18	-0.33	-7.39e-03	6.54e-05	-1.33e-05
208	8	0.0	-1.48	0.02	9.24e-03	-4.31e-06	1.66e-05
208	15	0.0	0.79	-0.23	-4.93e-03	4.57e-05	-8.84e-06
208	16	0.0	-0.98	5.64e-03	6.16e-03	0.0	1.10e-05
208	19	0.0	0.16	-0.12	-9.85e-04	2.36e-05	-1.77e-06
208	20	0.0	-0.20	-0.07	1.23e-03	1.43e-05	2.21e-06
208	21	0.0	0.0	-0.10	0.0	1.94e-05	0.0
209	4	0.06	-0.67	-0.45	7.28e-03	3.63e-04	1.46e-03
209	5	0.11	0.38	8.21e-03	-2.63e-03	-1.68e-03	-7.00e-04
209	8	0.08	-0.65	-0.48	7.45e-03	1.31e-04	1.46e-03
209	12	0.04	-0.44	-0.31	4.88e-03	1.86e-04	9.73e-04
209	13	0.08	0.25	-1.92e-03	-1.73e-03	-1.18e-03	-4.67e-04
209	16	0.06	-0.43	-0.33	4.99e-03	3.16e-05	9.73e-04
209	18	0.05	0.02	-0.08	3.09e-04	-5.89e-04	0.0
209	19	0.05	0.09	-0.03	-4.73e-04	-6.41e-04	-1.56e-04
209	20	0.05	-0.07	-0.12	1.19e-03	-3.84e-04	1.95e-04
209	21	0.05	0.02	-0.07	2.65e-04	-5.27e-04	0.0
210	4	-0.06	-2.33	0.71	0.01	3.63e-04	1.46e-03
210	5	-0.11	1.18	-0.55	-6.23e-03	-1.68e-03	-7.00e-04
210	7	-0.09	1.92	-0.78	-9.77e-03	-1.17e-03	-1.17e-03
210	12	-0.04	-1.55	0.47	7.44e-03	1.86e-04	9.73e-04
210	13	-0.08	0.79	-0.37	-4.18e-03	-1.18e-03	-4.67e-04

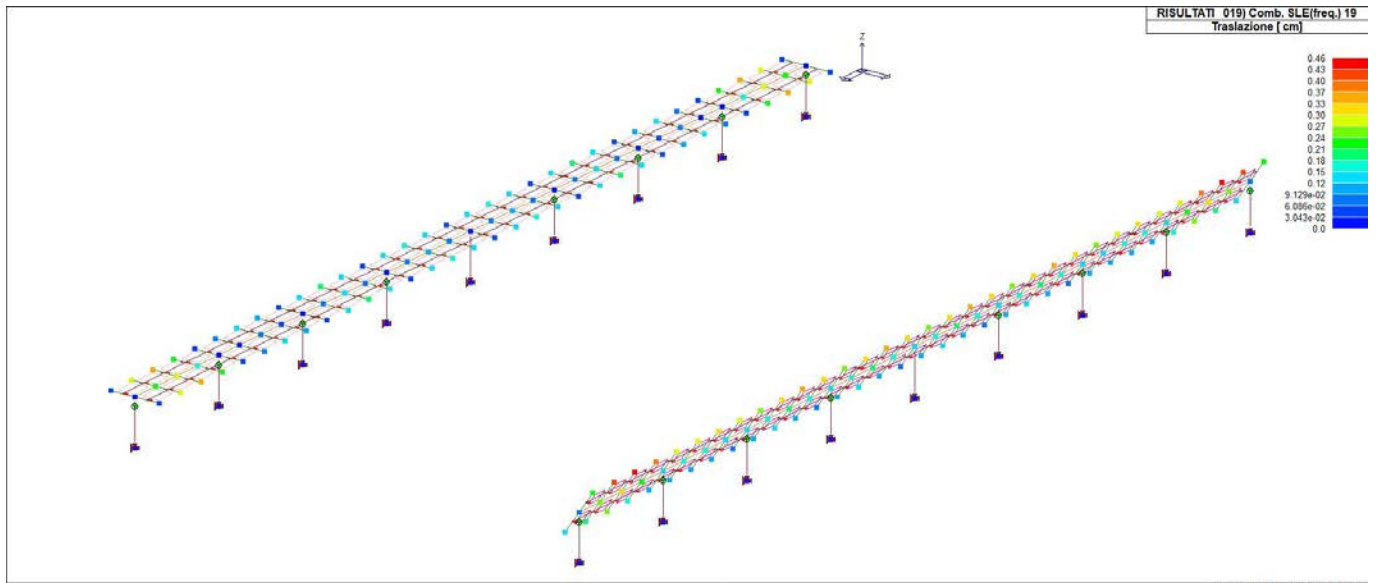
210	15	-0.06	1.28	-0.53	-6.54e-03	-1.25e-03	-7.78e-04
210	18	-0.05	0.02	-0.08	-3.09e-04	-5.89e-04	0.0
210	19	-0.05	0.27	-0.16	-1.50e-03	-6.41e-04	-1.56e-04
210	20	-0.05	-0.30	0.04	1.27e-03	-3.84e-04	1.95e-04
210	21	-0.05	0.02	-0.07	-2.65e-04	-5.27e-04	0.0
211	6	-0.36	0.03	-0.30	4.52e-03	1.48e-03	-3.54e-03
211	8	-0.34	0.03	-0.49	7.21e-03	-3.24e-04	-5.89e-03
211	14	-0.25	0.02	-0.20	3.03e-03	1.15e-03	-2.36e-03
211	16	-0.24	0.02	-0.33	4.82e-03	-5.94e-05	-3.93e-03
211	18	-0.15	0.01	-8.92e-03	1.72e-04	1.64e-03	0.0
211	20	-0.15	0.01	-0.07	1.07e-03	1.08e-03	-7.86e-04
211	21	-0.13	0.01	-7.81e-03	1.50e-04	1.47e-03	0.0
212	4	-0.21	-0.66	-0.38	7.28e-03	-6.06e-04	-4.23e-03
212	6	-0.24	-0.36	-0.48	4.84e-03	9.04e-04	-2.54e-03
212	8	-0.25	-0.65	-0.46	7.45e-03	-2.13e-04	-4.23e-03
212	12	-0.15	-0.44	-0.27	4.88e-03	-3.08e-04	-2.82e-03
212	14	-0.17	-0.24	-0.34	3.25e-03	6.99e-04	-1.69e-03
212	16	-0.17	-0.43	-0.33	4.99e-03	-4.63e-05	-2.82e-03
212	18	-0.09	0.02	-0.20	3.09e-04	1.00e-03	0.0
212	19	-0.07	0.09	-0.16	-4.73e-04	1.09e-03	4.51e-04
212	20	-0.09	-0.07	-0.20	1.19e-03	6.58e-04	-5.64e-04
212	21	-0.08	0.02	-0.18	2.65e-04	9.00e-04	0.0
213	4	0.29	-1.64	0.68	0.01	-9.59e-04	-5.89e-03
213	6	0.36	-0.97	0.40	6.56e-03	1.48e-03	-3.54e-03
213	12	0.20	-1.09	0.45	7.55e-03	-4.83e-04	-3.93e-03
213	14	0.25	-0.64	0.26	4.36e-03	1.15e-03	-2.36e-03
213	18	0.15	0.01	-8.92e-03	-1.72e-04	1.64e-03	0.0
213	20	0.15	-0.21	0.08	1.39e-03	1.08e-03	-7.86e-04
213	21	0.13	0.01	-7.81e-03	-1.50e-04	1.47e-03	0.0
214	4	0.21	-2.32	0.79	0.01	-6.06e-04	-4.23e-03
214	7	0.06	1.91	-1.14	-9.77e-03	3.05e-03	3.38e-03
214	8	0.25	-2.31	0.71	0.01	-2.13e-04	-4.23e-03
214	12	0.15	-1.55	0.50	7.44e-03	-3.08e-04	-2.82e-03
214	15	0.05	1.28	-0.78	-6.54e-03	2.13e-03	2.26e-03
214	16	0.17	-1.54	0.45	7.33e-03	-4.63e-05	-2.82e-03
214	19	0.07	0.27	-0.29	-1.50e-03	1.09e-03	4.51e-04
214	20	0.09	-0.30	-0.04	1.27e-03	6.58e-04	-5.64e-04
214	21	0.08	0.02	-0.18	-2.65e-04	9.00e-04	0.0
215	7	0.0	0.53	-2.27e-03	-7.39e-03	4.95e-03	4.72e-03
215	8	0.0	-0.67	3.72e-04	9.24e-03	-3.24e-04	-5.89e-03
215	15	0.0	0.35	-1.58e-03	-4.93e-03	3.46e-03	3.14e-03
215	16	0.0	-0.44	1.78e-04	6.16e-03	-5.94e-05	-3.93e-03
215	19	0.0	0.07	-7.95e-04	-9.85e-04	1.78e-03	6.29e-04
215	20	0.0	-0.09	-4.43e-04	1.23e-03	1.08e-03	-7.86e-04
215	21	0.0	0.0	-6.38e-04	0.0	1.47e-03	0.0
216	7	0.0	1.09	-0.56	-7.39e-03	3.05e-03	3.38e-03
216	8	0.0	-1.36	0.04	9.24e-03	-2.13e-04	-4.23e-03
216	15	0.0	0.73	-0.39	-4.93e-03	2.13e-03	2.26e-03
216	16	0.0	-0.91	7.86e-03	6.16e-03	-4.63e-05	-2.82e-03
216	19	0.0	0.15	-0.20	-9.85e-04	1.09e-03	4.51e-04
216	20	0.0	-0.18	-0.12	1.23e-03	6.58e-04	-5.64e-04
216	21	0.0	0.0	-0.17	0.0	9.00e-04	0.0
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		-0.36	-2.65	-2.13	-9.77e-03	-0.01	-5.89e-03
		0.36	2.17	0.81	0.01	0.01	5.89e-03



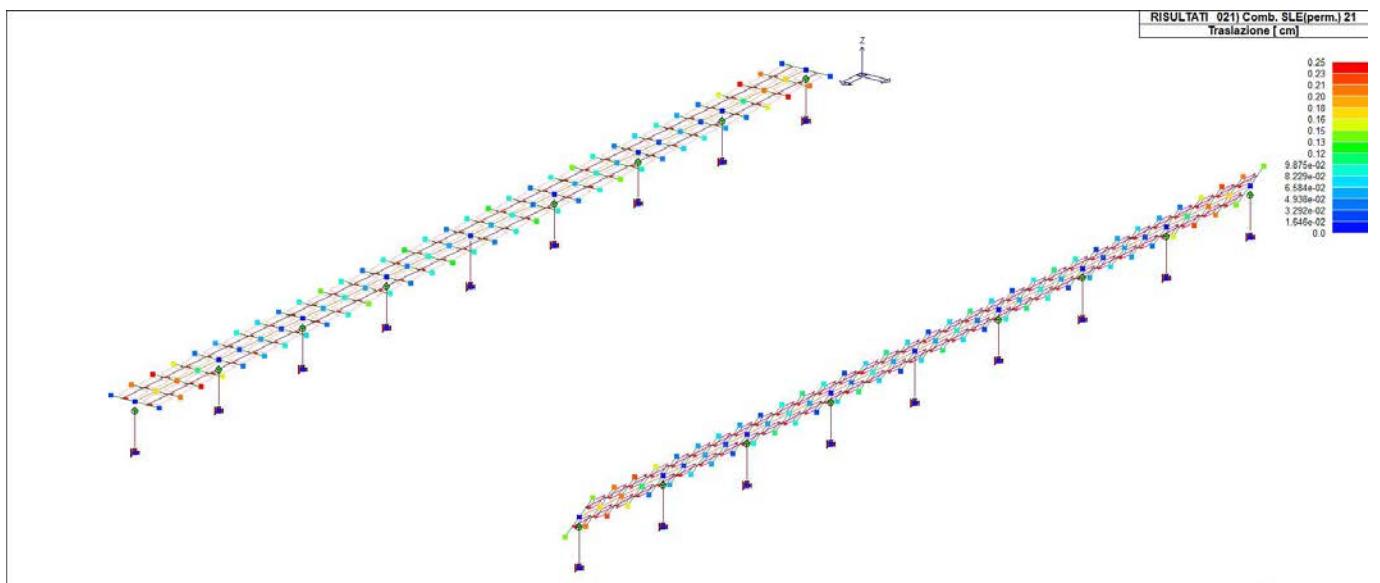
41_RIS_SPOSTAMENTI_004_Comb. SLU A1 4



41_RIS_SPOSTAMENTI_012_Comb. SLE(rara) 12



41_RIS_SPOSTAMENTI_019_Comb. SLE(freq.) 19



41_RIS_SPOSTAMENTI_021_Comb. SLE(perm.) 21

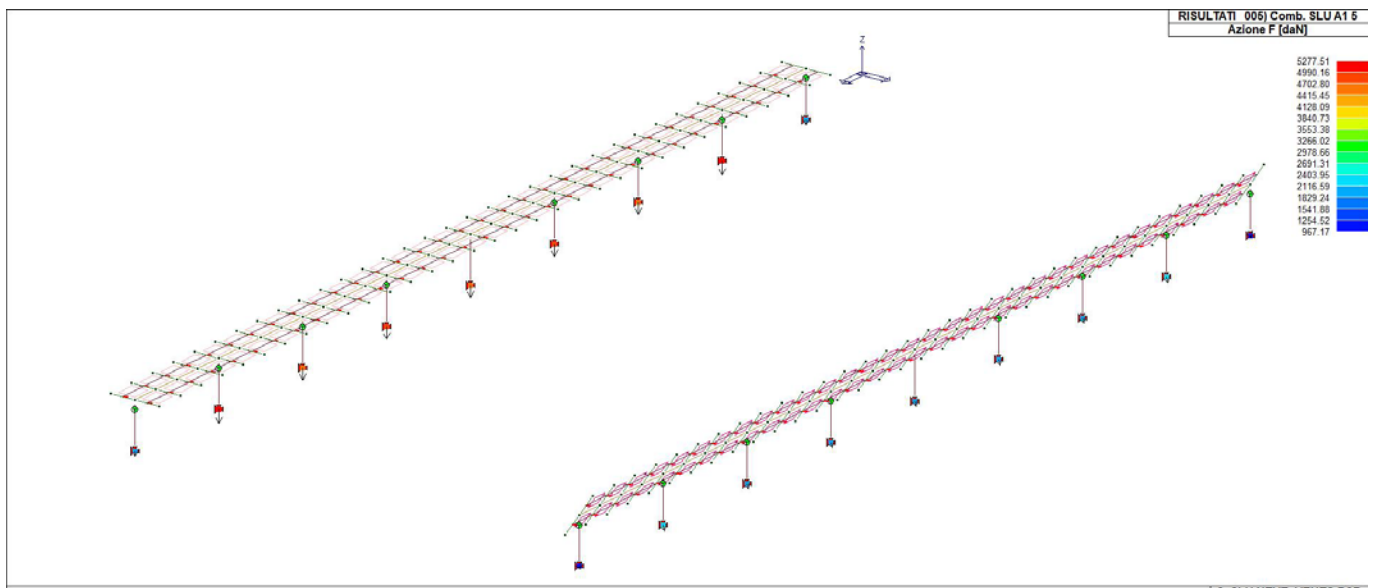
Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
31	4	0.0	-1770.13	353.65	3.540e+05	0.0	-32.88
31	7	0.0	1416.10	-2224.08	-2.832e+05	0.0	26.31
31	8	0.0	-1770.13	76.71	3.540e+05	0.0	-32.88
31	12	0.0	-1180.09	160.75	2.360e+05	0.0	-21.92
31	15	0.0	944.07	-1557.74	-1.888e+05	0.0	17.54
31	16	0.0	-1180.09	-23.88	2.360e+05	0.0	-21.92
31	19	0.0	188.81	-827.74	-3.776e+04	0.0	3.51
31	20	0.0	-236.02	-520.96	4.720e+04	0.0	-4.38
31	21	0.0	0.0	-691.39	0.0	0.0	0.0
33	4	0.0	-1622.60	305.17	3.245e+05	0.0	0.0
33	7	0.0	1298.08	-1974.15	-2.596e+05	0.0	0.0
33	8	0.0	-1622.60	60.29	3.245e+05	0.0	0.0
33	12	0.0	-1081.73	136.34	2.163e+05	0.0	0.0
33	15	0.0	865.39	-1383.20	-1.731e+05	0.0	0.0
33	16	0.0	-1081.73	-26.92	2.163e+05	0.0	0.0

33	19	0.0	173.08	-737.71	-3.462e+04	0.0	0.0
33	20	0.0	-216.35	-466.45	4.327e+04	0.0	0.0
33	21	0.0	0.0	-617.15	0.0	0.0	0.0
37	4	0.0	-1611.89	294.41	3.224e+05	0.0	0.03
37	7	0.0	1289.52	-1918.70	-2.579e+05	0.0	-0.02
37	8	0.0	-1611.89	56.64	3.224e+05	0.0	0.03
37	12	0.0	-1074.60	130.92	2.149e+05	0.0	0.02
37	15	0.0	859.68	-1344.48	-1.719e+05	0.0	-0.01
37	16	0.0	-1074.60	-27.59	2.149e+05	0.0	0.02
37	19	0.0	171.94	-717.74	-3.439e+04	0.0	-2.84e-03
37	20	0.0	-214.92	-454.36	4.298e+04	0.0	3.55e-03
37	21	0.0	0.0	-600.68	0.0	0.0	0.0
38	4	0.0	-876.25	210.51	1.753e+05	0.0	-290.40
38	7	0.0	701.00	-963.41	-1.402e+05	0.0	232.32
38	8	0.0	-876.25	111.83	1.753e+05	0.0	-290.40
38	12	0.0	-584.17	107.72	1.168e+05	0.0	-193.60
38	15	0.0	467.34	-674.89	-9.347e+04	0.0	154.88
38	16	0.0	-584.17	41.94	1.168e+05	0.0	-193.60
38	19	0.0	93.47	-354.24	-1.869e+04	0.0	30.98
38	20	0.0	-116.83	-210.87	2.337e+04	0.0	-38.72
38	21	0.0	0.0	-290.52	0.0	0.0	0.0
39	4	0.0	-1770.13	353.65	3.540e+05	0.0	32.88
39	7	0.0	1416.10	-2224.08	-2.832e+05	0.0	-26.31
39	8	0.0	-1770.13	76.71	3.540e+05	0.0	32.88
39	12	0.0	-1180.09	160.75	2.360e+05	0.0	21.92
39	15	0.0	944.07	-1557.74	-1.888e+05	0.0	-17.54
39	16	0.0	-1180.09	-23.88	2.360e+05	0.0	21.92
39	19	0.0	188.81	-827.74	-3.776e+04	0.0	-3.51
39	20	0.0	-236.02	-520.96	4.720e+04	0.0	4.38
39	21	0.0	0.0	-691.39	0.0	0.0	0.0
40	4	0.0	-1620.85	310.53	3.242e+05	0.0	0.57
40	7	0.0	1296.68	-2001.75	-2.593e+05	0.0	-0.46
40	8	0.0	-1620.85	62.10	3.242e+05	0.0	0.57
40	12	0.0	-1080.56	139.04	2.161e+05	0.0	0.38
40	15	0.0	864.45	-1402.48	-1.729e+05	0.0	-0.30
40	16	0.0	-1080.56	-26.58	2.161e+05	0.0	0.38
40	19	0.0	172.89	-747.65	-3.458e+04	0.0	-0.06
40	20	0.0	-216.11	-472.47	4.322e+04	0.0	0.08
40	21	0.0	0.0	-625.35	0.0	0.0	0.0
41	4	0.0	-1620.85	310.53	3.242e+05	0.0	-0.57
41	7	0.0	1296.68	-2001.75	-2.593e+05	0.0	0.46
41	8	0.0	-1620.85	62.10	3.242e+05	0.0	-0.57
41	12	0.0	-1080.56	139.04	2.161e+05	0.0	-0.38
41	15	0.0	864.45	-1402.48	-1.729e+05	0.0	0.30
41	16	0.0	-1080.56	-26.58	2.161e+05	0.0	-0.38
41	19	0.0	172.89	-747.65	-3.458e+04	0.0	0.06
41	20	0.0	-216.11	-472.47	4.322e+04	0.0	-0.08
41	21	0.0	0.0	-625.35	0.0	0.0	0.0
43	4	0.0	-1611.89	294.41	3.224e+05	0.0	-0.03
43	7	0.0	1289.52	-1918.70	-2.579e+05	0.0	0.02
43	8	0.0	-1611.89	56.64	3.224e+05	0.0	-0.03
43	12	0.0	-1074.60	130.92	2.149e+05	0.0	-0.02
43	15	0.0	859.68	-1344.48	-1.719e+05	0.0	0.01
43	16	0.0	-1074.60	-27.59	2.149e+05	0.0	-0.02
43	19	0.0	171.94	-717.74	-3.439e+04	0.0	2.84e-03
43	20	0.0	-214.92	-454.36	4.298e+04	0.0	-3.55e-03
43	21	0.0	0.0	-600.68	0.0	0.0	0.0
50	1	0.0	0.0	-386.85	0.0	0.0	0.0
50	4	0.0	0.0	654.61	0.0	0.0	0.0
50	5	0.0	0.0	-2056.54	0.0	0.0	0.0
50	9	0.0	0.0	-290.52	0.0	0.0	0.0
50	12	0.0	0.0	403.79	0.0	0.0	0.0
50	13	0.0	0.0	-1403.65	0.0	0.0	0.0
50	17	0.0	0.0	-290.52	0.0	0.0	0.0
50	18	0.0	0.0	-446.49	0.0	0.0	0.0
50	20	0.0	0.0	-151.66	0.0	0.0	0.0
50	21	0.0	0.0	-290.52	0.0	0.0	0.0
73	4	0.0	-876.25	210.51	1.753e+05	0.0	290.40
73	7	0.0	701.00	-963.41	-1.402e+05	0.0	-232.32
73	8	0.0	-876.25	111.83	1.753e+05	0.0	290.40
73	12	0.0	-584.17	107.72	1.168e+05	0.0	193.60
73	15	0.0	467.34	-674.89	-9.347e+04	0.0	-154.88
73	16	0.0	-584.17	41.94	1.168e+05	0.0	193.60
73	19	0.0	93.47	-354.24	-1.869e+04	0.0	-30.98
73	20	0.0	-116.83	-210.87	2.337e+04	0.0	38.72
73	21	0.0	0.0	-290.52	0.0	0.0	0.0
183	1	0.0	0.0	-924.56	0.0	0.0	0.0

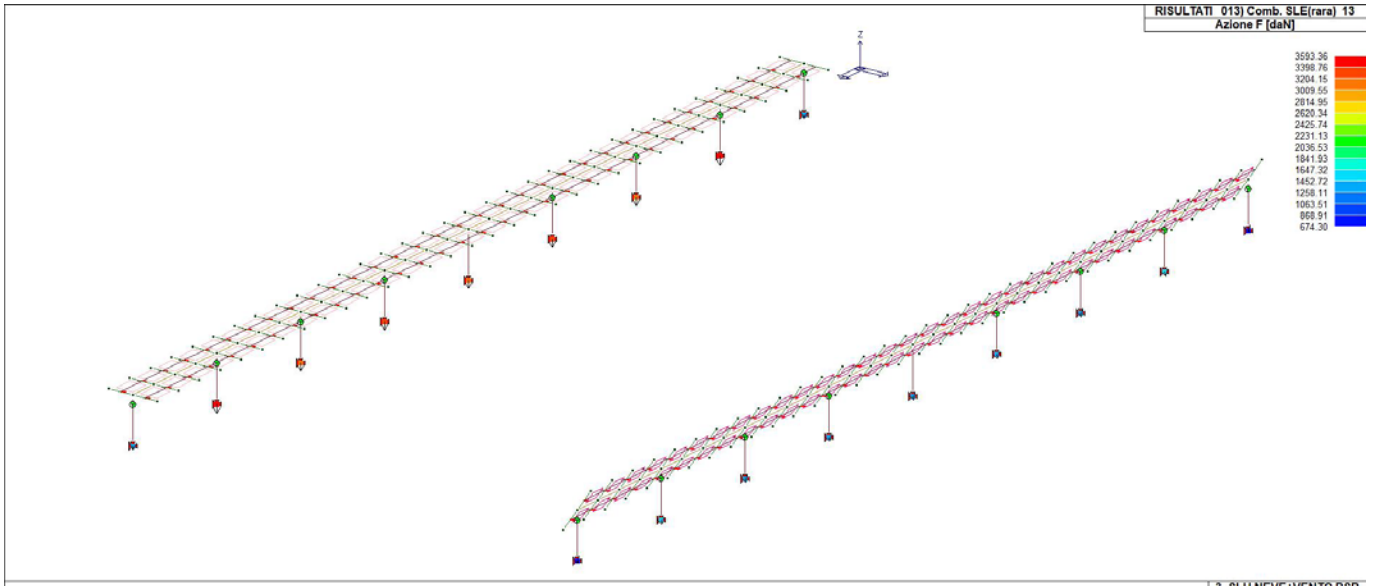
183	4	0.0	0.0	1303.94	0.0	0.0	0.0
183	5	0.0	0.0	-5277.51	0.0	0.0	0.0
183	9	0.0	0.0	-691.39	0.0	0.0	0.0
183	12	0.0	0.0	794.28	0.0	0.0	0.0
183	13	0.0	0.0	-3593.36	0.0	0.0	0.0
183	17	0.0	0.0	-691.39	0.0	0.0	0.0
183	18	0.0	0.0	-1129.16	0.0	0.0	0.0
183	20	0.0	0.0	-394.26	0.0	0.0	0.0
183	21	0.0	0.0	-691.39	0.0	0.0	0.0
185	1	0.0	0.0	-825.07	0.0	0.0	0.0
185	4	0.0	0.0	1145.45	0.0	0.0	0.0
185	5	0.0	0.0	-4674.15	0.0	0.0	0.0
185	9	0.0	0.0	-617.15	0.0	0.0	0.0
185	12	0.0	0.0	696.53	0.0	0.0	0.0
185	13	0.0	0.0	-3183.21	0.0	0.0	0.0
185	17	0.0	0.0	-617.15	0.0	0.0	0.0
185	18	0.0	0.0	-1004.25	0.0	0.0	0.0
185	20	0.0	0.0	-354.42	0.0	0.0	0.0
185	21	0.0	0.0	-617.15	0.0	0.0	0.0
188	1	0.0	0.0	-803.00	0.0	0.0	0.0
188	4	0.0	0.0	1110.28	0.0	0.0	0.0
188	5	0.0	0.0	-4540.29	0.0	0.0	0.0
188	9	0.0	0.0	-600.68	0.0	0.0	0.0
188	12	0.0	0.0	674.83	0.0	0.0	0.0
188	13	0.0	0.0	-3092.21	0.0	0.0	0.0
188	17	0.0	0.0	-600.68	0.0	0.0	0.0
188	18	0.0	0.0	-976.54	0.0	0.0	0.0
188	20	0.0	0.0	-345.58	0.0	0.0	0.0
188	21	0.0	0.0	-600.68	0.0	0.0	0.0
189	1	0.0	0.0	-386.85	0.0	0.0	0.0
189	4	0.0	0.0	654.61	0.0	0.0	0.0
189	5	0.0	0.0	-2056.54	0.0	0.0	0.0
189	9	0.0	0.0	-290.52	0.0	0.0	0.0
189	12	0.0	0.0	403.79	0.0	0.0	0.0
189	13	0.0	0.0	-1403.65	0.0	0.0	0.0
189	17	0.0	0.0	-290.52	0.0	0.0	0.0
189	18	0.0	0.0	-446.49	0.0	0.0	0.0
189	20	0.0	0.0	-151.66	0.0	0.0	0.0
189	21	0.0	0.0	-290.52	0.0	0.0	0.0
190	1	0.0	0.0	-924.56	0.0	0.0	0.0
190	4	0.0	0.0	1303.94	0.0	0.0	0.0
190	5	0.0	0.0	-5277.51	0.0	0.0	0.0
190	9	0.0	0.0	-691.39	0.0	0.0	0.0
190	12	0.0	0.0	794.28	0.0	0.0	0.0
190	13	0.0	0.0	-3593.36	0.0	0.0	0.0
190	17	0.0	0.0	-691.39	0.0	0.0	0.0
190	18	0.0	0.0	-1129.16	0.0	0.0	0.0
190	20	0.0	0.0	-394.26	0.0	0.0	0.0
190	21	0.0	0.0	-691.39	0.0	0.0	0.0
191	1	0.0	0.0	-836.05	0.0	0.0	0.0
191	4	0.0	0.0	1162.96	0.0	0.0	0.0
191	5	0.0	0.0	-4740.78	0.0	0.0	0.0
191	9	0.0	0.0	-625.35	0.0	0.0	0.0
191	12	0.0	0.0	707.32	0.0	0.0	0.0
191	13	0.0	0.0	-3228.50	0.0	0.0	0.0
191	17	0.0	0.0	-625.35	0.0	0.0	0.0
191	18	0.0	0.0	-1018.04	0.0	0.0	0.0
191	20	0.0	0.0	-358.82	0.0	0.0	0.0
191	21	0.0	0.0	-625.35	0.0	0.0	0.0
192	1	0.0	0.0	-836.05	0.0	0.0	0.0
192	4	0.0	0.0	1162.96	0.0	0.0	0.0
192	5	0.0	0.0	-4740.78	0.0	0.0	0.0
192	9	0.0	0.0	-625.35	0.0	0.0	0.0
192	12	0.0	0.0	707.32	0.0	0.0	0.0
192	13	0.0	0.0	-3228.50	0.0	0.0	0.0
192	17	0.0	0.0	-625.35	0.0	0.0	0.0
192	18	0.0	0.0	-1018.04	0.0	0.0	0.0
192	20	0.0	0.0	-358.82	0.0	0.0	0.0
192	21	0.0	0.0	-625.35	0.0	0.0	0.0
194	1	0.0	0.0	-803.00	0.0	0.0	0.0
194	4	0.0	0.0	1110.28	0.0	0.0	0.0
194	5	0.0	0.0	-4540.29	0.0	0.0	0.0
194	9	0.0	0.0	-600.68	0.0	0.0	0.0
194	12	0.0	0.0	674.83	0.0	0.0	0.0
194	13	0.0	0.0	-3092.21	0.0	0.0	0.0
194	17	0.0	0.0	-600.68	0.0	0.0	0.0
194	18	0.0	0.0	-976.54	0.0	0.0	0.0

194	20	0.0	0.0	-345.58	0.0	0.0	0.0
194	21	0.0	0.0	-600.68	0.0	0.0	0.0
Nodo		Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		0.0	-1770.13	-5277.51	-2.832e+05	0.0	-290.40
		0.0	1416.10	1303.94	3.540e+05	0.0	290.40
Nodo	Cmb	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
		daN	daN	daN	daN cm	daN cm	daN cm
31	7	0.0	1416.10	-2224.08	-2.832e+05	0.0	26.31
	4	0.0	-1770.13	353.65	3.540e+05	0.0	-32.88
	3	0.0	1416.10	-1947.13	-2.832e+05	0.0	26.31
	8	0.0	-1770.13	76.71	3.540e+05	0.0	-32.88
	4	0.0	-1770.13	353.65	3.540e+05	0.0	-32.88
	7	0.0	1416.10	-2224.08	-2.832e+05	0.0	26.31
33	7	0.0	1298.08	-1974.15	-2.596e+05	0.0	0.0
	4	0.0	-1622.60	305.17	3.245e+05	0.0	0.0
	3	0.0	1298.08	-1729.26	-2.596e+05	0.0	0.0
	8	0.0	-1622.60	60.29	3.245e+05	0.0	0.0
	7	0.0	1298.08	-1974.15	-2.596e+05	0.0	0.0
	4	0.0	-1622.60	305.17	3.245e+05	0.0	0.0
37	7	0.0	1289.52	-1918.70	-2.579e+05	0.0	-0.02
	4	0.0	-1611.89	294.41	3.224e+05	0.0	0.03
	3	0.0	1289.52	-1680.92	-2.579e+05	0.0	-0.02
	8	0.0	-1611.89	56.64	3.224e+05	0.0	0.03
	4	0.0	-1611.89	294.41	3.224e+05	0.0	0.03
	7	0.0	1289.52	-1918.70	-2.579e+05	0.0	-0.02
38	7	0.0	701.00	-963.41	-1.402e+05	0.0	232.32
	4	0.0	-876.25	210.51	1.753e+05	0.0	-290.40
	3	0.0	701.00	-864.73	-1.402e+05	0.0	232.32
	8	0.0	-876.25	111.83	1.753e+05	0.0	-290.40
	4	0.0	-876.25	210.51	1.753e+05	0.0	-290.40
	7	0.0	701.00	-963.41	-1.402e+05	0.0	232.32
39	7	0.0	1416.10	-2224.08	-2.832e+05	0.0	-26.31
	4	0.0	-1770.13	353.65	3.540e+05	0.0	32.88
	3	0.0	1416.10	-1947.13	-2.832e+05	0.0	-26.31
	8	0.0	-1770.13	76.71	3.540e+05	0.0	32.88
	4	0.0	-1770.13	353.65	3.540e+05	0.0	32.88
	7	0.0	1416.10	-2224.08	-2.832e+05	0.0	-26.31
40	7	0.0	1296.68	-2001.75	-2.593e+05	0.0	-0.46
	4	0.0	-1620.85	310.53	3.242e+05	0.0	0.57
	3	0.0	1296.68	-1753.32	-2.593e+05	0.0	-0.46
	8	0.0	-1620.85	62.10	3.242e+05	0.0	0.57
	4	0.0	-1620.85	310.53	3.242e+05	0.0	0.57
	7	0.0	1296.68	-2001.75	-2.593e+05	0.0	-0.46
41	7	0.0	1296.68	-2001.75	-2.593e+05	0.0	0.46
	4	0.0	-1620.85	310.53	3.242e+05	0.0	-0.57
	3	0.0	1296.68	-1753.32	-2.593e+05	0.0	0.46
	8	0.0	-1620.85	62.10	3.242e+05	0.0	-0.57
	4	0.0	-1620.85	310.53	3.242e+05	0.0	-0.57
	7	0.0	1296.68	-2001.75	-2.593e+05	0.0	0.46
43	7	0.0	1289.52	-1918.70	-2.579e+05	0.0	0.02
	4	0.0	-1611.89	294.41	3.224e+05	0.0	-0.03
	3	0.0	1289.52	-1680.92	-2.579e+05	0.0	0.02
	8	0.0	-1611.89	56.64	3.224e+05	0.0	-0.03
	4	0.0	-1611.89	294.41	3.224e+05	0.0	-0.03
	7	0.0	1289.52	-1918.70	-2.579e+05	0.0	0.02
50	5	0.0	0.0	-2056.54	0.0	0.0	0.0
	4	0.0	0.0	654.61	0.0	0.0	0.0
	1	0.0	0.0	-386.85	0.0	0.0	0.0
	1	0.0	0.0	-386.85	0.0	0.0	0.0
	2	0.0	0.0	-1556.64	0.0	0.0	0.0
	4	0.0	0.0	654.61	0.0	0.0	0.0
73	7	0.0	701.00	-963.41	-1.402e+05	0.0	-232.32
	4	0.0	-876.25	210.51	1.753e+05	0.0	290.40
	3	0.0	701.00	-864.73	-1.402e+05	0.0	-232.32
	8	0.0	-876.25	111.83	1.753e+05	0.0	290.40
	4	0.0	-876.25	210.51	1.753e+05	0.0	290.40
	7	0.0	701.00	-963.41	-1.402e+05	0.0	-232.32
183	5	0.0	0.0	-5277.51	0.0	0.0	0.0
	4	0.0	0.0	1303.94	0.0	0.0	0.0
	1	0.0	0.0	-924.56	0.0	0.0	0.0
	1	0.0	0.0	-924.56	0.0	0.0	0.0
	2	0.0	0.0	-4207.83	0.0	0.0	0.0
	4	0.0	0.0	1303.94	0.0	0.0	0.0
185	5	0.0	0.0	-4674.15	0.0	0.0	0.0

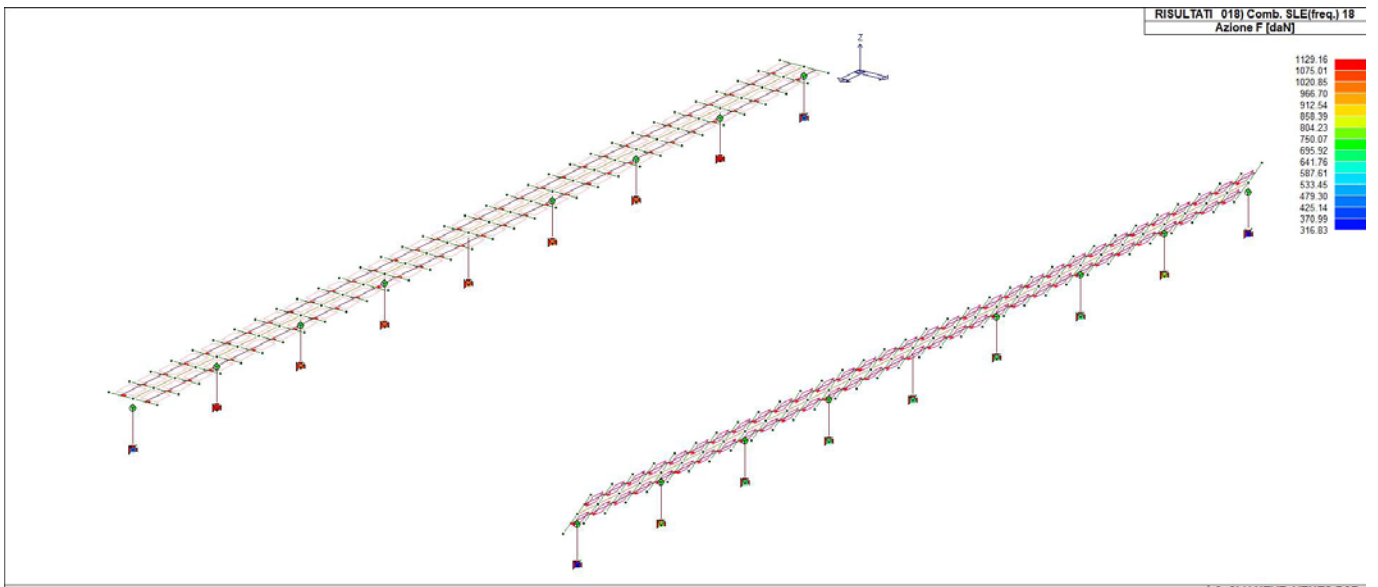
	4	0.0	0.0	1145.45	0.0	0.0	0.0
	1	0.0	0.0	-825.07	0.0	0.0	0.0
	1	0.0	0.0	-825.07	0.0	0.0	0.0
	4	0.0	0.0	1145.45	0.0	0.0	0.0
188	2	0.0	0.0	-3728.30	0.0	0.0	0.0
	5	0.0	0.0	-4540.29	0.0	0.0	0.0
	4	0.0	0.0	1110.28	0.0	0.0	0.0
	1	0.0	0.0	-803.00	0.0	0.0	0.0
	1	0.0	0.0	-803.00	0.0	0.0	0.0
	2	0.0	0.0	-3621.92	0.0	0.0	0.0
189	4	0.0	0.0	1110.28	0.0	0.0	0.0
	5	0.0	0.0	-2056.54	0.0	0.0	0.0
	4	0.0	0.0	654.61	0.0	0.0	0.0
	1	0.0	0.0	-386.85	0.0	0.0	0.0
	1	0.0	0.0	-386.85	0.0	0.0	0.0
	2	0.0	0.0	-1556.64	0.0	0.0	0.0
190	4	0.0	0.0	654.61	0.0	0.0	0.0
	5	0.0	0.0	-5277.51	0.0	0.0	0.0
	4	0.0	0.0	1303.94	0.0	0.0	0.0
	1	0.0	0.0	-924.56	0.0	0.0	0.0
	1	0.0	0.0	-924.56	0.0	0.0	0.0
	2	0.0	0.0	-4207.83	0.0	0.0	0.0
191	4	0.0	0.0	1303.94	0.0	0.0	0.0
	5	0.0	0.0	-4740.78	0.0	0.0	0.0
	4	0.0	0.0	1162.96	0.0	0.0	0.0
	1	0.0	0.0	-836.05	0.0	0.0	0.0
	1	0.0	0.0	-836.05	0.0	0.0	0.0
	2	0.0	0.0	-3781.25	0.0	0.0	0.0
192	4	0.0	0.0	1162.96	0.0	0.0	0.0
	5	0.0	0.0	-4740.78	0.0	0.0	0.0
	4	0.0	0.0	1162.96	0.0	0.0	0.0
	1	0.0	0.0	-836.05	0.0	0.0	0.0
	1	0.0	0.0	-836.05	0.0	0.0	0.0
	2	0.0	0.0	-3781.25	0.0	0.0	0.0
194	4	0.0	0.0	1162.96	0.0	0.0	0.0
	5	0.0	0.0	-4540.29	0.0	0.0	0.0
	4	0.0	0.0	1110.28	0.0	0.0	0.0
	1	0.0	0.0	-803.00	0.0	0.0	0.0
	1	0.0	0.0	-803.00	0.0	0.0	0.0
	2	0.0	0.0	-3621.92	0.0	0.0	0.0
	4	0.0	0.0	1110.28	0.0	0.0	0.0



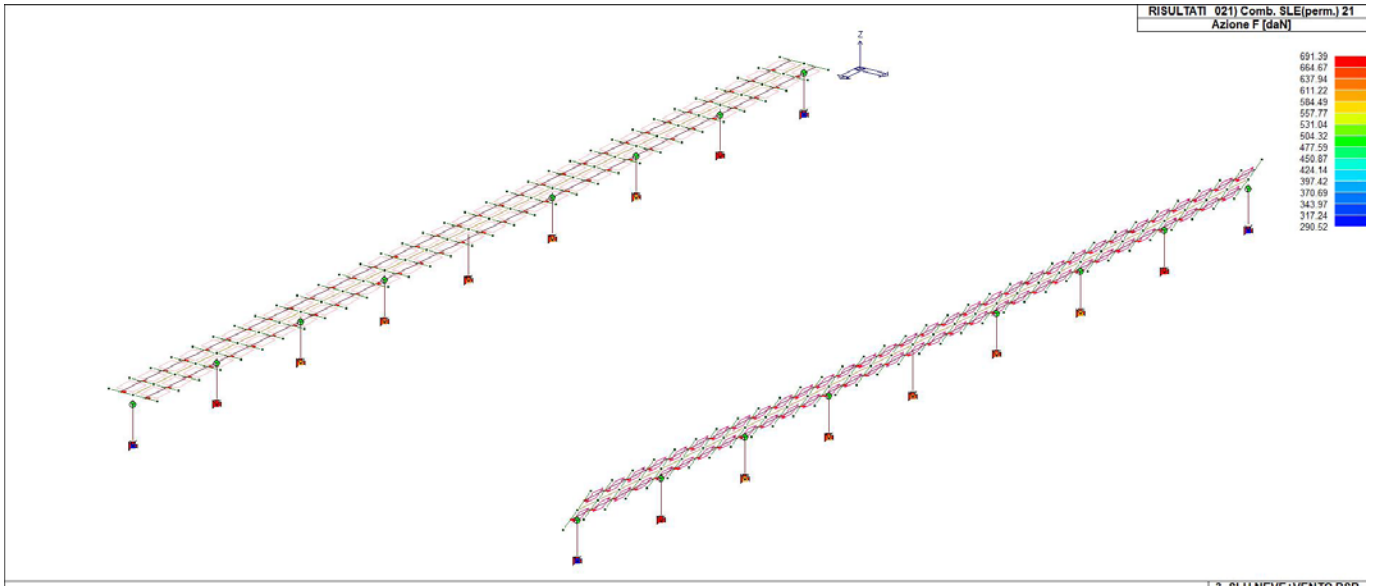
42_RIS_REAZIONI_005_Comb. SLU A1 5



42_RIS_REAZIONI_013_Comb. SLE(rara) 13



42_RIS_REAZIONI_018_Comb. SLE(freq.) 18



42_RIS_REAZIONI_021_Comb. SLE(perm.) 21

RISULTATI ELEMENTI TIPO TRAVE

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**

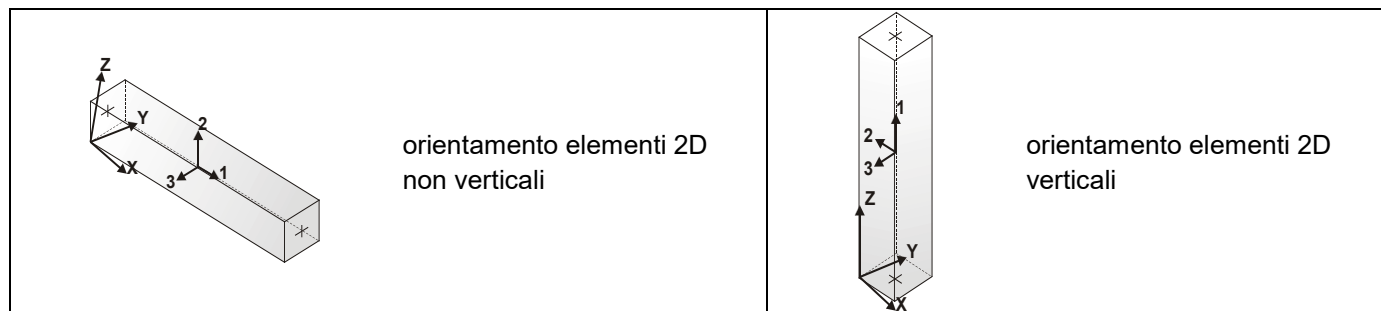
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

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.



Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN		daN	daN	daN cm	daN cm	daN cm	
28	3	0.0	0.0	-0.98	0.0	0.0	-1680.92	1289.52	0.0	0.02	0.0	-2.579e+05
		-2.579e+05	0.0	0.0	0.0	200.0	-1601.73	1289.52	0.0	0.02	0.0	0.0
28	4	3.224e+05	0.0	1.22	0.0	0.0	294.41	-1611.89	0.0	-0.03	0.0	3.224e+05
		0.0	0.0	0.0	0.0	200.0	373.60	-1611.89	0.0	-0.03	0.0	0.0
28	7	0.0	0.0	-0.98	0.0	0.0	-1918.70	1289.52	0.0	0.02	0.0	-2.579e+05
		-2.579e+05	0.0	0.0	0.0	200.0	-1839.51	1289.52	0.0	0.02	0.0	0.0
28	8	3.224e+05	0.0	1.22	0.0	0.0	56.64	-1611.89	0.0	-0.03	0.0	3.224e+05
		0.0	0.0	0.0	0.0	200.0	135.83	-1611.89	0.0	-0.03	0.0	0.0
28	11	0.0	0.0	-0.65	0.0	0.0	-1185.97	859.68	0.0	0.01	0.0	-1.719e+05
		-1.719e+05	0.0	0.0	0.0	200.0	-1125.05	859.68	0.0	0.01	0.0	0.0
28	12	2.149e+05	0.0	0.82	0.0	0.0	130.92	-1074.60	0.0	-0.02	0.0	2.149e+05
		0.0	0.0	0.0	0.0	200.0	191.84	-1074.60	0.0	-0.02	0.0	0.0
28	15	0.0	0.0	-0.65	0.0	0.0	-1344.48	859.68	0.0	0.01	0.0	-1.719e+05
		-1.719e+05	0.0	0.0	0.0	200.0	-1283.57	859.68	0.0	0.01	0.0	0.0
28	16	2.149e+05	0.0	0.82	0.0	0.0	-27.59	-1074.60	0.0	-0.02	0.0	2.149e+05
		0.0	0.0	0.0	0.0	200.0	33.32	-1074.60	0.0	-0.02	0.0	0.0
28	17	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	

		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
28	19	0.0	0.0	-0.13	0.0	0.0	-717.74	171.94	0.0	2.84e-03	0.0	-3.439e+04
		-3.439e+04	0.0	0.0	0.0	200.0	-656.82	171.94	0.0	2.84e-03	0.0	0.0
28	20	4.298e+04	0.0	0.16	0.0	0.0	-454.36	-214.92	0.0	-3.55e-03	0.0	4.298e+04
		0.0	0.0	0.0	0.0	200.0	-393.45	-214.92	0.0	-3.55e-03	0.0	0.0
28	21	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
29	3	0.0	0.0	-0.99	0.0	0.0	-1729.26	1298.08	0.0	0.0	0.0	-2.596e+05
		-2.596e+05	0.0	0.0	0.0	200.0	-1650.07	1298.08	0.0	0.0	0.0	0.0
29	4	3.245e+05	0.0	1.23	0.0	0.0	305.17	-1622.60	0.0	0.0	0.0	3.245e+05
		0.0	0.0	0.0	0.0	200.0	384.36	-1622.60	0.0	0.0	0.0	0.0
29	7	0.0	0.0	-0.99	0.0	0.0	-1974.15	1298.08	0.0	0.0	0.0	-2.596e+05
		-2.596e+05	0.0	0.0	0.0	200.0	-1894.96	1298.08	0.0	0.0	0.0	0.0
29	8	3.245e+05	0.0	1.23	0.0	0.0	60.29	-1622.60	0.0	0.0	0.0	3.245e+05
		0.0	0.0	0.0	0.0	200.0	139.48	-1622.60	0.0	0.0	0.0	0.0
29	11	0.0	0.0	-0.66	0.0	0.0	-1219.95	865.39	0.0	0.0	0.0	-1.731e+05
		-1.731e+05	0.0	0.0	0.0	200.0	-1159.03	865.39	0.0	0.0	0.0	0.0
29	12	2.163e+05	0.0	0.82	0.0	0.0	136.34	-1081.73	0.0	0.0	0.0	2.163e+05
		0.0	0.0	0.0	0.0	200.0	197.26	-1081.73	0.0	0.0	0.0	0.0
29	15	0.0	0.0	-0.66	0.0	0.0	-1383.20	865.39	0.0	0.0	0.0	-1.731e+05
		-1.731e+05	0.0	0.0	0.0	200.0	-1322.29	865.39	0.0	0.0	0.0	0.0
29	16	2.163e+05	0.0	0.82	0.0	0.0	-26.92	-1081.73	0.0	0.0	0.0	2.163e+05
		0.0	0.0	0.0	0.0	200.0	34.00	-1081.73	0.0	0.0	0.0	0.0
29	19	0.0	0.0	-0.13	0.0	0.0	-737.71	173.08	0.0	0.0	0.0	-3.462e+04
		-3.462e+04	0.0	0.0	0.0	200.0	-676.80	173.08	0.0	0.0	0.0	0.0
29	20	4.327e+04	0.0	0.16	0.0	0.0	-466.45	-216.35	0.0	0.0	0.0	4.327e+04
		0.0	0.0	0.0	0.0	200.0	-405.54	-216.35	0.0	0.0	0.0	0.0
29	21	0.0	0.0	0.0	0.0	0.0	-617.15	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-556.24	0.0	0.0	0.0	0.0	0.0
37	3	0.0	0.0	-0.98	0.0	0.0	-1680.92	1289.52	0.0	-0.02	0.0	-2.579e+05
		-2.579e+05	0.0	0.0	0.0	200.0	-1601.73	1289.52	0.0	-0.02	0.0	0.0
37	4	3.224e+05	0.0	1.22	0.0	0.0	294.41	-1611.89	0.0	0.03	0.0	3.224e+05
		0.0	0.0	0.0	0.0	200.0	373.60	-1611.89	0.0	0.03	0.0	0.0
37	7	0.0	0.0	-0.98	0.0	0.0	-1918.70	1289.52	0.0	-0.02	0.0	-2.579e+05
		-2.579e+05	0.0	0.0	0.0	200.0	-1839.51	1289.52	0.0	-0.02	0.0	0.0
37	8	3.224e+05	0.0	1.22	0.0	0.0	56.64	-1611.89	0.0	0.03	0.0	3.224e+05
		0.0	0.0	0.0	0.0	200.0	135.83	-1611.89	0.0	0.03	0.0	0.0
37	11	0.0	0.0	-0.65	0.0	0.0	-1185.97	859.68	0.0	-0.01	0.0	-1.719e+05
		-1.719e+05	0.0	0.0	0.0	200.0	-1125.05	859.68	0.0	-0.01	0.0	0.0
37	12	2.149e+05	0.0	0.82	0.0	0.0	130.92	-1074.60	0.0	0.02	0.0	2.149e+05
		0.0	0.0	0.0	0.0	200.0	191.84	-1074.60	0.0	0.02	0.0	0.0
37	15	0.0	0.0	-0.65	0.0	0.0	-1344.48	859.68	0.0	-0.01	0.0	-1.719e+05
		-1.719e+05	0.0	0.0	0.0	200.0	-1283.57	859.68	0.0	-0.01	0.0	0.0
37	16	2.149e+05	0.0	0.82	0.0	0.0	-27.59	-1074.60	0.0	0.02	0.0	2.149e+05
		0.0	0.0	0.0	0.0	200.0	33.32	-1074.60	0.0	0.02	0.0	0.0
37	18	0.0	0.0	0.0	0.0	0.0	-664.09	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-603.17	0.0	0.0	0.0	0.0	0.0
37	19	0.0	0.0	-0.13	0.0	0.0	-717.74	171.94	0.0	-2.84e-03	0.0	-3.439e+04
		-3.439e+04	0.0	0.0	0.0	200.0	-656.82	171.94	0.0	-2.84e-03	0.0	0.0
37	20	4.298e+04	0.0	0.16	0.0	0.0	-454.36	-214.92	0.0	3.55e-03	0.0	4.298e+04
		0.0	0.0	0.0	0.0	200.0	-393.45	-214.92	0.0	3.55e-03	0.0	0.0
37	21	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
61	3	0.0	0.0	-0.98	0.0	0.0	-1753.32	1296.68	0.0	-0.46	0.0	-2.593e+05
		-2.593e+05	0.0	0.0	0.0	200.0	-1674.13	1296.68	0.0	-0.46	0.0	0.0
61	4	3.242e+05	0.0	1.23	0.0	0.0	310.53	-1620.85	0.0	0.57	0.0	3.242e+05
		0.0	0.0	0.0	0.0	200.0	389.72	-1620.85	0.0	0.57	0.0	0.0
61	7	0.0	0.0	-0.98	0.0	0.0	-2001.75	1296.68	0.0	-0.46	0.0	-2.593e+05
		-2.593e+05	0.0	0.0	0.0	200.0	-1922.56	1296.68	0.0	-0.46	0.0	0.0
61	8	3.242e+05	0.0	1.23	0.0	0.0	62.10	-1620.85	0.0	0.57	0.0	3.242e+05
		0.0	0.0	0.0	0.0	200.0	141.30	-1620.85	0.0	0.57	0.0	0.0
61	11	0.0	0.0	-0.66	0.0	0.0	-1236.86	864.45	0.0	-0.30	0.0	-1.729e+05
		-1.729e+05	0.0	0.0	0.0	200.0	-1175.95	864.45	0.0	-0.30	0.0	0.0
61	12	2.161e+05	0.0	0.82	0.0	0.0	139.04	-1080.56	0.0	0.38	0.0	2.161e+05
		0.0	0.0	0.0	0.0	200.0	199.96	-1080.56	0.0	0.38	0.0	0.0
61	15	0.0	0.0	-0.66	0.0	0.0	-1402.48	864.45	0.0	-0.30	0.0	-1.729e+05
		-1.729e+05	0.0	0.0	0.0	200.0	-1341.56	864.45	0.0	-0.30	0.0	0.0
61	16	2.161e+05	0.0	0.82	0.0	0.0	-26.58	-1080.56	0.0	0.38	0.0	2.161e+05
		0.0	0.0	0.0	0.0	200.0	34.34	-1080.56	0.0	0.38	0.0	0.0
61	18	0.0	0.0	0.0	0.0	0.0	-691.60	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.68	0.0	0.0	0.0	0.0	0.0
61	19	0.0	0.0	-0.13	0.0	0.0	-747.65	172.89	0.0	-0.06	0.0	-3.458e+04
		-3.458e+04	0.0	0.0	0.0	200.0	-686.74	172.89	0.0	-0.06	0.0	0.0
61	20	4.322e+04	0.0	0.16	0.0	0.0	-472.47	-216.11	0.0	0.08	0.0	4.322e+04
		0.0	0.0	0.0	0.0	200.0	-411.56	-216.11	0.0	0.08	0.0	0.0
61	21	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0

62	3	0.0	0.0	-1.07	0.0	0.0	-1947.13	1416.10	0.0	26.31	0.0	-2.832e+05
		-2.832e+05	0.0	0.0	0.0	200.0	-1867.94	1416.10	0.0	26.31	0.0	0.0
62	4	3.540e+05	0.0	1.34	0.0	0.0	353.65	-1770.13	0.0	-32.88	0.0	3.540e+05
		0.0	0.0	0.0	0.0	200.0	432.85	-1770.13	0.0	-32.88	0.0	0.0
62	7	0.0	0.0	-1.07	0.0	0.0	-2224.08	1416.10	0.0	26.31	0.0	-2.832e+05
		-2.832e+05	0.0	0.0	0.0	200.0	-2144.89	1416.10	0.0	26.31	0.0	0.0
62	8	3.540e+05	0.0	1.34	0.0	0.0	76.71	-1770.13	0.0	-32.88	0.0	3.540e+05
		0.0	0.0	0.0	0.0	200.0	155.90	-1770.13	0.0	-32.88	0.0	0.0
62	11	0.0	0.0	-0.72	0.0	0.0	-1373.11	944.07	0.0	17.54	0.0	-1.888e+05
		-1.888e+05	0.0	0.0	0.0	200.0	-1312.19	944.07	0.0	17.54	0.0	0.0
62	12	2.360e+05	0.0	0.90	0.0	0.0	160.75	-1180.09	0.0	-21.92	0.0	2.360e+05
		0.0	0.0	0.0	0.0	200.0	221.67	-1180.09	0.0	-21.92	0.0	0.0
62	15	0.0	0.0	-0.72	0.0	0.0	-1557.74	944.07	0.0	17.54	0.0	-1.888e+05
		-1.888e+05	0.0	0.0	0.0	200.0	-1496.82	944.07	0.0	17.54	0.0	0.0
62	16	2.360e+05	0.0	0.90	0.0	0.0	-23.88	-1180.09	0.0	-21.92	0.0	2.360e+05
		0.0	0.0	0.0	0.0	200.0	37.04	-1180.09	0.0	-21.92	0.0	0.0
62	19	0.0	0.0	-0.14	0.0	0.0	-827.74	188.81	0.0	3.51	0.0	-3.776e+04
		-3.776e+04	0.0	0.0	0.0	200.0	-766.82	188.81	0.0	3.51	0.0	0.0
62	20	4.720e+04	0.0	0.18	0.0	0.0	-520.96	-236.02	0.0	-4.38	0.0	4.720e+04
		0.0	0.0	0.0	0.0	200.0	-460.05	-236.02	0.0	-4.38	0.0	0.0
62	21	0.0	0.0	0.0	0.0	0.0	-691.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.48	0.0	0.0	0.0	0.0	0.0
104	3	0.0	0.0	-0.53	0.0	0.0	-864.73	701.00	0.0	232.32	0.0	-1.402e+05
		-1.402e+05	0.0	0.0	0.0	200.0	-785.54	701.00	0.0	232.32	0.0	0.0
104	4	1.753e+05	0.0	0.67	0.0	0.0	210.51	-876.25	0.0	-290.40	0.0	1.753e+05
		0.0	0.0	0.0	0.0	200.0	289.70	-876.25	0.0	-290.40	0.0	0.0
104	7	0.0	0.0	-0.53	0.0	0.0	-963.41	701.00	0.0	232.32	0.0	-1.402e+05
		-1.402e+05	0.0	0.0	0.0	200.0	-884.22	701.00	0.0	232.32	0.0	0.0
104	8	1.753e+05	0.0	0.67	0.0	0.0	111.83	-876.25	0.0	-290.40	0.0	1.753e+05
		0.0	0.0	0.0	0.0	200.0	191.02	-876.25	0.0	-290.40	0.0	0.0
104	11	0.0	0.0	-0.35	0.0	0.0	-609.11	467.34	0.0	154.88	0.0	-9.347e+04
		-9.347e+04	0.0	0.0	0.0	200.0	-548.19	467.34	0.0	154.88	0.0	0.0
104	12	1.168e+05	0.0	0.44	0.0	0.0	107.72	-584.17	0.0	-193.60	0.0	1.168e+05
		0.0	0.0	0.0	0.0	200.0	168.63	-584.17	0.0	-193.60	0.0	0.0
104	15	0.0	0.0	-0.35	0.0	0.0	-674.89	467.34	0.0	154.88	0.0	-9.347e+04
		-9.347e+04	0.0	0.0	0.0	200.0	-613.97	467.34	0.0	154.88	0.0	0.0
104	16	1.168e+05	0.0	0.44	0.0	0.0	41.94	-584.17	0.0	-193.60	0.0	1.168e+05
		0.0	0.0	0.0	0.0	200.0	102.85	-584.17	0.0	-193.60	0.0	0.0
104	18	0.0	0.0	0.0	0.0	0.0	-316.83	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-255.92	0.0	0.0	0.0	0.0	0.0
104	19	0.0	0.0	-0.07	0.0	0.0	-354.24	93.47	0.0	30.98	0.0	-1.869e+04
		-1.869e+04	0.0	0.0	0.0	200.0	-293.32	93.47	0.0	30.98	0.0	0.0
104	20	2.337e+04	0.0	0.09	0.0	0.0	-210.87	-116.83	0.0	-38.72	0.0	2.337e+04
		0.0	0.0	0.0	0.0	200.0	-149.96	-116.83	0.0	-38.72	0.0	0.0
104	21	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
122	3	0.0	0.0	-0.53	0.0	0.0	-864.73	701.00	0.0	-232.32	0.0	-1.402e+05
		-1.402e+05	0.0	0.0	0.0	200.0	-785.54	701.00	0.0	-232.32	0.0	0.0
122	4	1.753e+05	0.0	0.67	0.0	0.0	210.51	-876.25	0.0	290.40	0.0	1.753e+05
		0.0	0.0	0.0	0.0	200.0	289.70	-876.25	0.0	290.40	0.0	0.0
122	7	0.0	0.0	-0.53	0.0	0.0	-963.41	701.00	0.0	-232.32	0.0	-1.402e+05
		-1.402e+05	0.0	0.0	0.0	200.0	-884.22	701.00	0.0	-232.32	0.0	0.0
122	8	1.753e+05	0.0	0.67	0.0	0.0	111.83	-876.25	0.0	290.40	0.0	1.753e+05
		0.0	0.0	0.0	0.0	200.0	191.02	-876.25	0.0	290.40	0.0	0.0
122	11	0.0	0.0	-0.35	0.0	0.0	-609.11	467.34	0.0	-154.88	0.0	-9.347e+04
		-9.347e+04	0.0	0.0	0.0	200.0	-548.19	467.34	0.0	-154.88	0.0	0.0
122	12	1.168e+05	0.0	0.44	0.0	0.0	107.72	-584.17	0.0	193.60	0.0	1.168e+05
		0.0	0.0	0.0	0.0	200.0	168.63	-584.17	0.0	193.60	0.0	0.0
122	15	0.0	0.0	-0.35	0.0	0.0	-674.89	467.34	0.0	-154.88	0.0	-9.347e+04
		-9.347e+04	0.0	0.0	0.0	200.0	-613.97	467.34	0.0	-154.88	0.0	0.0
122	16	1.168e+05	0.0	0.44	0.0	0.0	41.94	-584.17	0.0	193.60	0.0	1.168e+05
		0.0	0.0	0.0	0.0	200.0	102.85	-584.17	0.0	193.60	0.0	0.0
122	17	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
122	19	0.0	0.0	-0.07	0.0	0.0	-354.24	93.47	0.0	-30.98	0.0	-1.869e+04
		-1.869e+04	0.0	0.0	0.0	200.0	-293.32	93.47	0.0	-30.98	0.0	0.0
122	20	2.337e+04	0.0	0.09	0.0	0.0	-210.87	-116.83	0.0	38.72	0.0	2.337e+04
		0.0	0.0	0.0	0.0	200.0	-149.96	-116.83	0.0	38.72	0.0	0.0
122	21	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
150	1	0.0	0.0	0.0	0.0	0.0	-924.56	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-845.37	0.0	0.0	0.0	0.0	0.0
150	2	0.0	0.0	0.0	0.0	0.0	-4207.83	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-4128.64	0.0	0.0	0.0	0.0	0.0
150	4	0.0	0.0	0.0	0.0	0.0	1303.94	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	1383.13	0.0	0.0	0.0	0.0	0.0
150	5	0.0	0.0	0.0	0.0	0.0	-5277.51	0.0	0.0	0.0	0.0	0.0

150	9	0.0	0.0	0.0	0.0	200.0	-5198.32	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	-691.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.48	0.0	0.0	0.0	0.0	0.0
150	10	0.0	0.0	0.0	0.0	0.0	-2880.24	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-2819.32	0.0	0.0	0.0	0.0	0.0
150	12	0.0	0.0	0.0	0.0	0.0	794.28	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	855.19	0.0	0.0	0.0	0.0	0.0
150	13	0.0	0.0	0.0	0.0	0.0	-3593.36	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3532.45	0.0	0.0	0.0	0.0	0.0
150	17	0.0	0.0	0.0	0.0	0.0	-691.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.48	0.0	0.0	0.0	0.0	0.0
150	18	0.0	0.0	0.0	0.0	0.0	-1129.16	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1068.25	0.0	0.0	0.0	0.0	0.0
150	20	0.0	0.0	0.0	0.0	0.0	-394.26	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-333.34	0.0	0.0	0.0	0.0	0.0
150	21	0.0	0.0	0.0	0.0	0.0	-691.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.48	0.0	0.0	0.0	0.0	0.0
159	1	0.0	0.0	0.0	0.0	0.0	-836.05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-756.86	0.0	0.0	0.0	0.0	0.0
159	2	0.0	0.0	0.0	0.0	0.0	-3781.25	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3702.06	0.0	0.0	0.0	0.0	0.0
159	4	0.0	0.0	0.0	0.0	0.0	1162.96	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	1242.15	0.0	0.0	0.0	0.0	0.0
159	5	0.0	0.0	0.0	0.0	0.0	-4740.78	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-4661.59	0.0	0.0	0.0	0.0	0.0
159	9	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0
159	10	0.0	0.0	0.0	0.0	0.0	-2588.82	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-2527.90	0.0	0.0	0.0	0.0	0.0
159	12	0.0	0.0	0.0	0.0	0.0	707.32	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	768.24	0.0	0.0	0.0	0.0	0.0
159	13	0.0	0.0	0.0	0.0	0.0	-3228.50	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3167.58	0.0	0.0	0.0	0.0	0.0
159	17	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0
159	18	0.0	0.0	0.0	0.0	0.0	-1018.04	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-957.13	0.0	0.0	0.0	0.0	0.0
159	20	0.0	0.0	0.0	0.0	0.0	-358.82	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-297.90	0.0	0.0	0.0	0.0	0.0
159	21	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0
160	1	0.0	0.0	0.0	0.0	0.0	-803.00	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-723.81	0.0	0.0	0.0	0.0	0.0
160	2	0.0	0.0	0.0	0.0	0.0	-3621.92	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3542.73	0.0	0.0	0.0	0.0	0.0
160	4	0.0	0.0	0.0	0.0	0.0	1110.28	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	1189.47	0.0	0.0	0.0	0.0	0.0
160	5	0.0	0.0	0.0	0.0	0.0	-4540.29	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-4461.10	0.0	0.0	0.0	0.0	0.0
160	9	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
160	10	0.0	0.0	0.0	0.0	0.0	-2479.97	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-2419.05	0.0	0.0	0.0	0.0	0.0
160	12	0.0	0.0	0.0	0.0	0.0	674.83	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	735.75	0.0	0.0	0.0	0.0	0.0
160	13	0.0	0.0	0.0	0.0	0.0	-3092.21	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3031.30	0.0	0.0	0.0	0.0	0.0
160	17	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
160	18	0.0	0.0	0.0	0.0	0.0	-976.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-915.62	0.0	0.0	0.0	0.0	0.0
160	20	0.0	0.0	0.0	0.0	0.0	-345.58	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-284.66	0.0	0.0	0.0	0.0	0.0
160	21	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
169	1	0.0	0.0	0.0	0.0	0.0	-825.07	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-745.88	0.0	0.0	0.0	0.0	0.0
169	4	0.0	0.0	0.0	0.0	0.0	1145.45	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	1224.64	0.0	0.0	0.0	0.0	0.0
169	5	0.0	0.0	0.0	0.0	0.0	-4674.15	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-4594.96	0.0	0.0	0.0	0.0	0.0
169	9	0.0	0.0	0.0	0.0	0.0	-617.15	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-556.24	0.0	0.0	0.0	0.0	0.0
169	12	0.0	0.0	0.0	0.0	0.0	696.53	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	757.44	0.0	0.0	0.0	0.0	0.0
169	13	0.0	0.0	0.0	0.0	0.0	-3183.21	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3122.29	0.0	0.0	0.0	0.0	0.0

169	17	0.0	0.0	0.0	0.0	0.0	-617.15	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-556.24	0.0	0.0	0.0	0.0	0.0
169	18	0.0	0.0	0.0	0.0	0.0	-1004.25	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-943.33	0.0	0.0	0.0	0.0	0.0
169	20	0.0	0.0	0.0	0.0	0.0	-354.42	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-293.50	0.0	0.0	0.0	0.0	0.0
169	21	0.0	0.0	0.0	0.0	0.0	-617.15	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-556.24	0.0	0.0	0.0	0.0	0.0
170	1	0.0	0.0	0.0	0.0	0.0	-803.00	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-723.81	0.0	0.0	0.0	0.0	0.0
170	2	0.0	0.0	0.0	0.0	0.0	-3621.92	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3542.73	0.0	0.0	0.0	0.0	0.0
170	4	0.0	0.0	0.0	0.0	0.0	1110.28	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	1189.47	0.0	0.0	0.0	0.0	0.0
170	5	0.0	0.0	0.0	0.0	0.0	-4540.29	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-4461.10	0.0	0.0	0.0	0.0	0.0
170	9	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
170	10	0.0	0.0	0.0	0.0	0.0	-2479.97	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-2419.05	0.0	0.0	0.0	0.0	0.0
170	12	0.0	0.0	0.0	0.0	0.0	674.83	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	735.75	0.0	0.0	0.0	0.0	0.0
170	13	0.0	0.0	0.0	0.0	0.0	-3092.21	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3031.30	0.0	0.0	0.0	0.0	0.0
170	17	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
170	18	0.0	0.0	0.0	0.0	0.0	-976.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-915.62	0.0	0.0	0.0	0.0	0.0
170	20	0.0	0.0	0.0	0.0	0.0	-345.58	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-284.66	0.0	0.0	0.0	0.0	0.0
170	21	0.0	0.0	0.0	0.0	0.0	-600.68	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-539.77	0.0	0.0	0.0	0.0	0.0
174	1	0.0	0.0	0.0	0.0	0.0	-836.05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-756.86	0.0	0.0	0.0	0.0	0.0
174	2	0.0	0.0	0.0	0.0	0.0	-3781.25	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3702.06	0.0	0.0	0.0	0.0	0.0
174	4	0.0	0.0	0.0	0.0	0.0	1162.96	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	1242.15	0.0	0.0	0.0	0.0	0.0
174	5	0.0	0.0	0.0	0.0	0.0	-4740.78	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-4661.59	0.0	0.0	0.0	0.0	0.0
174	9	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0
174	10	0.0	0.0	0.0	0.0	0.0	-2588.82	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-2527.90	0.0	0.0	0.0	0.0	0.0
174	12	0.0	0.0	0.0	0.0	0.0	707.32	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	768.24	0.0	0.0	0.0	0.0	0.0
174	13	0.0	0.0	0.0	0.0	0.0	-3228.50	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3167.58	0.0	0.0	0.0	0.0	0.0
174	17	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0
174	18	0.0	0.0	0.0	0.0	0.0	-1018.04	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-957.13	0.0	0.0	0.0	0.0	0.0
174	20	0.0	0.0	0.0	0.0	0.0	-358.82	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-297.90	0.0	0.0	0.0	0.0	0.0
174	21	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0
175	1	0.0	0.0	0.0	0.0	0.0	-924.56	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-845.37	0.0	0.0	0.0	0.0	0.0
175	2	0.0	0.0	0.0	0.0	0.0	-4207.83	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-4128.64	0.0	0.0	0.0	0.0	0.0
175	4	0.0	0.0	0.0	0.0	0.0	1303.94	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	1383.13	0.0	0.0	0.0	0.0	0.0
175	5	0.0	0.0	0.0	0.0	0.0	-5277.51	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-5198.32	0.0	0.0	0.0	0.0	0.0
175	9	0.0	0.0	0.0	0.0	0.0	-691.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.48	0.0	0.0	0.0	0.0	0.0
175	10	0.0	0.0	0.0	0.0	0.0	-2880.24	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-2819.32	0.0	0.0	0.0	0.0	0.0
175	12	0.0	0.0	0.0	0.0	0.0	794.28	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	855.19	0.0	0.0	0.0	0.0	0.0
175	13	0.0	0.0	0.0	0.0	0.0	-3593.36	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-3532.45	0.0	0.0	0.0	0.0	0.0
175	17	0.0	0.0	0.0	0.0	0.0	-691.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.48	0.0	0.0	0.0	0.0	0.0
175	18	0.0	0.0	0.0	0.0	0.0	-1129.16	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1068.25	0.0	0.0	0.0	0.0	0.0
175	20	0.0	0.0	0.0	0.0	0.0	-394.26	0.0	0.0	0.0	0.0	0.0

175	21	0.0	0.0	0.0	0.0	200.0	-333.34	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	-691.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.48	0.0	0.0	0.0	0.0	0.0
194	1	0.0	0.0	0.0	0.0	0.0	-386.85	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-307.66	0.0	0.0	0.0	0.0	0.0
194	2	0.0	0.0	0.0	0.0	0.0	-1556.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1477.45	0.0	0.0	0.0	0.0	0.0
194	4	0.0	0.0	0.0	0.0	0.0	654.61	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	733.80	0.0	0.0	0.0	0.0	0.0
194	5	0.0	0.0	0.0	0.0	0.0	-2056.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1977.35	0.0	0.0	0.0	0.0	0.0
194	9	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
194	10	0.0	0.0	0.0	0.0	0.0	-1070.38	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1009.46	0.0	0.0	0.0	0.0	0.0
194	12	0.0	0.0	0.0	0.0	0.0	403.79	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	464.70	0.0	0.0	0.0	0.0	0.0
194	13	0.0	0.0	0.0	0.0	0.0	-1403.65	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1342.73	0.0	0.0	0.0	0.0	0.0
194	17	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
194	18	0.0	0.0	0.0	0.0	0.0	-446.49	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-385.58	0.0	0.0	0.0	0.0	0.0
194	20	0.0	0.0	0.0	0.0	0.0	-151.66	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-90.74	0.0	0.0	0.0	0.0	0.0
194	21	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
195	1	0.0	0.0	0.0	0.0	0.0	-386.85	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-307.66	0.0	0.0	0.0	0.0	0.0
195	2	0.0	0.0	0.0	0.0	0.0	-1556.64	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1477.45	0.0	0.0	0.0	0.0	0.0
195	4	0.0	0.0	0.0	0.0	0.0	654.61	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	733.80	0.0	0.0	0.0	0.0	0.0
195	5	0.0	0.0	0.0	0.0	0.0	-2056.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1977.35	0.0	0.0	0.0	0.0	0.0
195	9	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
195	10	0.0	0.0	0.0	0.0	0.0	-1070.38	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1009.46	0.0	0.0	0.0	0.0	0.0
195	12	0.0	0.0	0.0	0.0	0.0	403.79	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	464.70	0.0	0.0	0.0	0.0	0.0
195	13	0.0	0.0	0.0	0.0	0.0	-1403.65	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-1342.73	0.0	0.0	0.0	0.0	0.0
195	17	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
195	18	0.0	0.0	0.0	0.0	0.0	-446.49	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-385.58	0.0	0.0	0.0	0.0	0.0
195	20	0.0	0.0	0.0	0.0	0.0	-151.66	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-90.74	0.0	0.0	0.0	0.0	0.0
195	21	0.0	0.0	0.0	0.0	0.0	-290.52	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-229.60	0.0	0.0	0.0	0.0	0.0
210	3	0.0	0.0	-1.07	0.0	0.0	-1947.13	1416.10	0.0	-26.31	0.0	-2.832e+05
		-2.832e+05	0.0	0.0	0.0	200.0	-1867.94	1416.10	0.0	-26.31	0.0	0.0
210	4	3.540e+05	0.0	1.34	0.0	0.0	353.65	-1770.13	0.0	32.88	0.0	3.540e+05
		0.0	0.0	0.0	0.0	200.0	432.85	-1770.13	0.0	32.88	0.0	0.0
210	7	0.0	0.0	-1.07	0.0	0.0	-2224.08	1416.10	0.0	-26.31	0.0	-2.832e+05
		-2.832e+05	0.0	0.0	0.0	200.0	-2144.89	1416.10	0.0	-26.31	0.0	0.0
210	8	3.540e+05	0.0	1.34	0.0	0.0	76.71	-1770.13	0.0	32.88	0.0	3.540e+05
		0.0	0.0	0.0	0.0	200.0	155.90	-1770.13	0.0	32.88	0.0	0.0
210	11	0.0	0.0	-0.72	0.0	0.0	-1373.11	944.07	0.0	-17.54	0.0	-1.888e+05
		-1.888e+05	0.0	0.0	0.0	200.0	-1312.19	944.07	0.0	-17.54	0.0	0.0
210	12	2.360e+05	0.0	0.90	0.0	0.0	160.75	-1180.09	0.0	21.92	0.0	2.360e+05
		0.0	0.0	0.0	0.0	200.0	221.67	-1180.09	0.0	21.92	0.0	0.0
210	15	0.0	0.0	-0.72	0.0	0.0	-1557.74	944.07	0.0	-17.54	0.0	-1.888e+05
		-1.888e+05	0.0	0.0	0.0	200.0	-1496.82	944.07	0.0	-17.54	0.0	0.0
210	16	2.360e+05	0.0	0.90	0.0	0.0	-23.88	-1180.09	0.0	21.92	0.0	2.360e+05
		0.0	0.0	0.0	0.0	200.0	37.04	-1180.09	0.0	21.92	0.0	0.0
210	19	0.0	0.0	-0.14	0.0	0.0	-827.74	188.81	0.0	-3.51	0.0	-3.776e+04
		-3.776e+04	0.0	0.0	0.0	200.0	-766.82	188.81	0.0	-3.51	0.0	0.0
210	20	4.720e+04	0.0	0.18	0.0	0.0	-520.96	-236.02	0.0	4.38	0.0	4.720e+04
		0.0	0.0	0.0	0.0	200.0	-460.05	-236.02	0.0	4.38	0.0	0.0
210	21	0.0	0.0	0.0	0.0	0.0	-691.39	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-630.48	0.0	0.0	0.0	0.0	0.0
214	3	0.0	0.0	-0.98	0.0	0.0	-1753.32	1296.68	0.0	0.46	0.0	-2.593e+05
		-2.593e+05	0.0	0.0	0.0	200.0	-1674.13	1296.68	0.0	0.46	0.0	0.0
214	4	3.242e+05	0.0	1.23	0.0	0.0	310.53	-1620.85	0.0	-0.57	0.0	3.242e+05
		0.0	0.0	0.0	0.0	200.0	389.72	-1620.85	0.0	-0.57	0.0	0.0

214	7	0.0	0.0	-0.98	0.0	0.0	-2001.75	1296.68	0.0	0.46	0.0	-2.593e+05
		-2.593e+05	0.0	0.0	0.0	200.0	-1922.56	1296.68	0.0	0.46	0.0	0.0
214	8	3.242e+05	0.0	1.23	0.0	0.0	62.10	-1620.85	0.0	-0.57	0.0	3.242e+05
		0.0	0.0	0.0	0.0	200.0	141.30	-1620.85	0.0	-0.57	0.0	0.0
214	11	0.0	0.0	-0.66	0.0	0.0	-1236.86	864.45	0.0	0.30	0.0	-1.729e+05
		-1.729e+05	0.0	0.0	0.0	200.0	-1175.95	864.45	0.0	0.30	0.0	0.0
214	12	2.161e+05	0.0	0.82	0.0	0.0	139.04	-1080.56	0.0	-0.38	0.0	2.161e+05
		0.0	0.0	0.0	0.0	200.0	199.96	-1080.56	0.0	-0.38	0.0	0.0
214	15	0.0	0.0	-0.66	0.0	0.0	-1402.48	864.45	0.0	0.30	0.0	-1.729e+05
		-1.729e+05	0.0	0.0	0.0	200.0	-1341.56	864.45	0.0	0.30	0.0	0.0
214	16	2.161e+05	0.0	0.82	0.0	0.0	-26.58	-1080.56	0.0	-0.38	0.0	2.161e+05
		0.0	0.0	0.0	0.0	200.0	34.34	-1080.56	0.0	-0.38	0.0	0.0
214	17	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0
214	19	0.0	0.0	-0.13	0.0	0.0	-747.65	172.89	0.0	0.06	0.0	-3.458e+04
		-3.458e+04	0.0	0.0	0.0	200.0	-686.74	172.89	0.0	0.06	0.0	0.0
214	20	4.322e+04	0.0	0.16	0.0	0.0	-472.47	-216.11	0.0	-0.08	0.0	4.322e+04
		0.0	0.0	0.0	0.0	200.0	-411.56	-216.11	0.0	-0.08	0.0	0.0
214	21	0.0	0.0	0.0	0.0	0.0	-625.35	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	200.0	-564.43	0.0	0.0	0.0	0.0	0.0

Pilas.	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	-2.832e+05	0.0	-1.07	0.0	-5277.51	-1770.13	0.0	-290.40
	3.540e+05	0.0	1.34	0.0	1383.13	1416.10	0.0	290.40

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
1	4	-1.298e+04	-4511.03	-0.10	-30.47	0.0	0.0	209.93	52.37	0.0	-1.415e+04	-3.829e+04
		-3.829e+04	-1.415e+04	-0.04	43.51	130.0	0.0	179.46	95.88	0.0	-4511.03	-1.298e+04
1	5	4.125e+04	-7936.38	0.12	-30.47	0.0	0.0	-199.74	116.21	0.0	-2.587e+04	4.125e+04
		1.331e+04	-2.587e+04	-0.08	43.51	130.0	0.0	-230.21	159.73	0.0	-7936.38	1.331e+04
1	7	5.331e+04	-6300.51	0.15	-30.47	0.0	0.0	-261.59	91.85	0.0	-2.107e+04	5.331e+04
		1.733e+04	-2.107e+04	-0.07	43.51	130.0	0.0	-292.06	135.36	0.0	-6300.51	1.733e+04
1	12	-8410.23	-3358.79	-0.07	-23.44	0.0	0.0	137.01	39.11	0.0	-1.062e+04	-2.470e+04
		-2.470e+04	-1.062e+04	-0.03	33.47	130.0	0.0	113.58	72.58	0.0	-3358.79	-8410.23
1	13	2.833e+04	-5642.35	0.08	-23.44	0.0	0.0	-136.10	81.67	0.0	-1.844e+04	2.833e+04
		9116.60	-1.844e+04	-0.06	33.47	130.0	0.0	-159.54	115.14	0.0	-5642.35	9116.60
1	15	3.637e+04	-4551.77	0.10	-23.44	0.0	0.0	-177.33	65.43	0.0	-1.523e+04	3.637e+04
		1.180e+04	-1.523e+04	-0.05	33.47	130.0	0.0	-200.77	98.90	0.0	-4551.77	1.180e+04
1	18	8858.27	-3849.51	0.03	-23.44	0.0	0.0	-35.69	50.97	0.0	-1.265e+04	8858.27
		2695.45	-1.265e+04	-0.04	33.47	130.0	0.0	-59.12	84.44	0.0	-3849.51	2695.45
1	19	1.312e+04	-3414.82	0.04	-23.44	0.0	0.0	-57.55	44.62	0.0	-1.139e+04	1.312e+04
		4113.01	-1.139e+04	-0.04	33.47	130.0	0.0	-80.99	78.09	0.0	-3414.82	4113.01
1	20	1403.81	-3397.43	5.76e-03	-23.44	0.0	0.0	2.83	42.91	0.0	-1.115e+04	1381.57
		226.49	-1.115e+04	-0.03	33.47	130.0	0.0	-20.60	76.38	0.0	-3397.43	226.49
1	21	7901.66	-3407.09	0.02	-23.44	0.0	0.0	-30.71	43.86	0.0	-1.128e+04	7901.66
		2385.66	-1.128e+04	-0.03	33.47	130.0	0.0	-54.15	77.33	0.0	-3407.09	2385.66
2	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	-7.48e-03	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
2	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	2.26e-03	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
2	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-7.77e-03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
2	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-8.49e-03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
2	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	-5.23e-03	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
2	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	1.26e-03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
2	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-5.43e-03	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
2	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-5.91e-03	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
2	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-2.62e-03	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
2	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-2.93e-03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
2	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-1.63e-03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
2	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-2.35e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
3	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
3	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	0.24	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
3	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04

		-1.398e+04	0.0	0.22	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
3	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.05	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
3	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.17	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
3	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.15	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
3	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.10	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
3	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.10	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
3	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.08	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
3	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.09	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
4	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
4	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
4	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
4	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
4	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
4	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
4	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
4	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1	1.754e+04	0.0	-0.05	-53.12	0.0	0.0	118.42	0.0	0.0	0.0	5593.27
		5593.27	0.0	0.0	0.0	130.0	0.0	65.30	0.0	0.0	0.0	1.754e+04
5	2	8.804e+04	0.0	-0.24	-53.12	0.0	0.0	476.09	0.0	0.0	0.0	2.960e+04
		2.960e+04	0.0	0.0	0.0	130.0	0.0	422.97	0.0	0.0	0.0	8.804e+04
5	4	-1.070e+04	0.0	0.08	-53.12	0.0	0.0	-124.34	0.0	0.0	0.0	-1.070e+04
		-3.031e+04	0.0	0.0	0.0	130.0	0.0	-177.45	0.0	0.0	0.0	-3.031e+04
5	5	1.110e+05	0.0	-0.30	-53.12	0.0	0.0	592.61	0.0	0.0	0.0	3.742e+04
		3.742e+04	0.0	0.0	0.0	130.0	0.0	539.49	0.0	0.0	0.0	1.110e+05
5	9	1.306e+04	0.0	-0.04	-40.86	0.0	0.0	88.94	0.0	0.0	0.0	4157.70
		4157.70	0.0	0.0	0.0	130.0	0.0	48.08	0.0	0.0	0.0	1.306e+04
5	10	6.006e+04	0.0	-0.16	-40.86	0.0	0.0	327.38	0.0	0.0	0.0	2.016e+04
		2.016e+04	0.0	0.0	0.0	130.0	0.0	286.52	0.0	0.0	0.0	6.006e+04
5	12	-6703.48	0.0	0.05	-40.86	0.0	0.0	-72.90	0.0	0.0	0.0	-6703.48
		-1.884e+04	0.0	0.0	0.0	130.0	0.0	-113.76	0.0	0.0	0.0	-1.884e+04
5	13	7.538e+04	0.0	-0.21	-40.86	0.0	0.0	405.06	0.0	0.0	0.0	2.537e+04
		2.537e+04	0.0	0.0	0.0	130.0	0.0	364.20	0.0	0.0	0.0	7.538e+04
5	17	1.306e+04	0.0	-0.04	-40.86	0.0	0.0	88.94	0.0	0.0	0.0	4157.70
		4157.70	0.0	0.0	0.0	130.0	0.0	48.08	0.0	0.0	0.0	1.306e+04
5	18	2.246e+04	0.0	-0.06	-40.86	0.0	0.0	136.63	0.0	0.0	0.0	7358.11
		7358.11	0.0	0.0	0.0	130.0	0.0	95.76	0.0	0.0	0.0	2.246e+04
5	20	6683.47	0.0	-0.02	-40.86	0.0	0.0	56.57	0.0	0.0	0.0	1985.46
		1985.46	0.0	0.0	0.0	130.0	0.0	15.71	0.0	0.0	0.0	6683.47
5	21	1.306e+04	0.0	-0.04	-40.86	0.0	0.0	88.94	0.0	0.0	0.0	4157.70
		4157.70	0.0	0.0	0.0	130.0	0.0	48.08	0.0	0.0	0.0	1.306e+04
6	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
6	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
6	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
6	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
6	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
6	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
6	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
6	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
6	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
7	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	2.26e-03	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0

7	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	-7.77e-03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
7	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	-8.49e-03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
7	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	1.26e-03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
7	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	-5.43e-03	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
7	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	-5.91e-03	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
7	17	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-2.35e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
7	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-2.62e-03	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
7	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	-2.93e-03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
7	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-1.63e-03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
7	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-2.35e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
8	4	6.270e+04	2.508e+04	-0.14	-30.47	0.0	0.0	597.45	205.87	0.0	-4511.03	-1.298e+04
		-1.298e+04	-4511.03	-0.05	43.51	130.0	0.0	566.98	249.38	0.0	2.508e+04	6.270e+04
8	5	1.331e+04	4.306e+04	0.15	-30.47	0.0	0.0	-615.39	370.49	0.0	-7936.38	1.331e+04
		-6.868e+04	-7936.38	-0.10	43.51	130.0	0.0	-645.86	414.00	0.0	4.306e+04	-6.868e+04
8	7	1.733e+04	3.497e+04	0.19	-30.47	0.0	0.0	-800.36	295.73	0.0	-6300.51	1.733e+04
		-8.870e+04	-6300.51	-0.08	43.51	130.0	0.0	-830.82	339.25	0.0	3.497e+04	-8.870e+04
8	12	4.036e+04	1.878e+04	-0.09	-23.44	0.0	0.0	386.86	153.58	0.0	-3358.79	-8410.23
		-8410.23	-3358.79	-0.04	33.47	130.0	0.0	363.43	187.05	0.0	1.878e+04	4.036e+04
8	13	9116.60	3.077e+04	0.10	-23.44	0.0	0.0	-421.70	263.33	0.0	-5642.35	9116.60
		-4.723e+04	-5642.35	-0.07	33.47	130.0	0.0	-445.13	296.80	0.0	3.077e+04	-4.723e+04
8	15	1.180e+04	2.538e+04	0.13	-23.44	0.0	0.0	-545.01	213.49	0.0	-4551.77	1.180e+04
		-6.058e+04	-4551.77	-0.06	33.47	130.0	0.0	-568.44	246.96	0.0	2.538e+04	-6.058e+04
8	18	2695.45	2.158e+04	0.03	-23.44	0.0	0.0	-125.25	178.87	0.0	-3849.51	2695.45
		-1.511e+04	-3849.51	-0.05	33.47	130.0	0.0	-148.69	212.35	0.0	2.158e+04	-1.511e+04
8	19	4113.01	1.944e+04	0.05	-23.44	0.0	0.0	-190.50	159.09	0.0	-3414.82	4113.01
		-2.218e+04	-3414.82	-0.04	33.47	130.0	0.0	-213.94	192.56	0.0	1.944e+04	-2.218e+04
8	20	226.49	1.924e+04	7.00e-03	-23.44	0.0	0.0	-11.32	157.38	0.0	-3397.43	226.49
		-2768.37	-3397.43	-0.04	33.47	130.0	0.0	-34.76	190.85	0.0	1.924e+04	-2768.37
8	21	2385.66	1.935e+04	0.03	-23.44	0.0	0.0	-110.86	158.33	0.0	-3407.09	2385.66
		-1.355e+04	-3407.09	-0.04	33.47	130.0	0.0	-134.30	191.80	0.0	1.935e+04	-1.355e+04
9	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
9	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.10	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
9	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.08	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
9	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	0.08	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
9	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.05	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
9	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.07	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
9	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.06	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
9	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
9	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.05	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
9	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
9	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.04	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
9	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
10	4	6.977e+04	2.547e+04	0.23	-30.47	0.0	0.0	-699.77	-300.66	0.0	2.547e+04	6.977e+04
		-2.318e+04	-1.079e+04	0.07	43.51	130.0	0.0	-730.23	-257.15	0.0	-1.079e+04	-2.318e+04
10	5	1.997e+04	5.619e+04	-0.30	-30.47	0.0	0.0	795.02	-511.39	0.0	5.619e+04	-8.140e+04
		-8.140e+04	-7458.99	0.23	43.51	130.0	0.0	764.55	-467.88	0.0	-7458.99	1.997e+04
10	6	1.831e+04	4.892e+04	0.05	-30.47	0.0	0.0	-198.13	-497.05	0.0	4.892e+04	1.831e+04
		-9427.59	-1.287e+04	0.17	43.51	130.0	0.0	-228.60	-453.54	0.0	-1.287e+04	-9427.59
10	7	2.726e+04	4.797e+04	-0.37	-30.47	0.0	0.0	1022.39	-420.10	0.0	4.797e+04	-1.037e+05
		-1.037e+05	-3812.07	0.21	43.51	130.0	0.0	991.92	-376.59	0.0	-3812.07	2.726e+04
10	12	4.472e+04	1.954e+04	0.15	-23.44	0.0	0.0	-448.75	-225.81	0.0	1.954e+04	4.472e+04
		-1.514e+04	-7637.66	0.06	33.47	130.0	0.0	-472.19	-192.33	0.0	-7637.66	-1.514e+04
10	13	1.363e+04	4.002e+04	-0.20	-23.44	0.0	0.0	547.77	-366.29	0.0	4.002e+04	-5.606e+04
		-5.606e+04	-5418.97	0.16	33.47	130.0	0.0	524.34	-332.82	0.0	-5418.97	1.363e+04
10	14	1.041e+04	3.517e+04	0.02	-23.44	0.0	0.0	-114.33	-356.73	0.0	3.517e+04	1.041e+04

		-5972.55	-9026.41	0.12	33.47	130.0	0.0	-137.77	-323.26	0.0	-9026.41	-5972.55
10	15	1.848e+04	3.454e+04	-0.25	-23.44	0.0	0.0	699.35	-305.43	0.0	3.454e+04	-7.091e+04
		-7.091e+04	-2987.69	0.15	33.47	130.0	0.0	675.91	-271.96	0.0	-2987.69	1.848e+04
10	18	3390.68	2.680e+04	-0.07	-23.44	0.0	0.0	182.15	-260.13	0.0	2.680e+04	-1.876e+04
		-1.876e+04	-4842.41	0.10	33.47	130.0	0.0	158.71	-226.66	0.0	-4842.41	3390.68
10	19	5912.99	2.475e+04	-0.10	-23.44	0.0	0.0	262.40	-236.07	0.0	2.475e+04	-2.668e+04
		-2.668e+04	-3763.01	0.10	33.47	130.0	0.0	238.96	-202.60	0.0	-3763.01	5912.99
10	20	-620.77	2.313e+04	-0.02	-23.44	0.0	0.0	41.70	-232.89	0.0	2.313e+04	-4517.81
		-4517.81	-4965.49	0.09	33.47	130.0	0.0	18.26	-199.41	0.0	-4965.49	-620.77
10	21	3009.10	2.403e+04	-0.06	-23.44	0.0	0.0	164.31	-234.66	0.0	2.403e+04	-1.683e+04
		-1.683e+04	-4297.45	0.09	33.47	130.0	0.0	140.87	-201.18	0.0	-4297.45	3009.10
11	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.07	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
11	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.06	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
11	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
11	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	-0.09	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
11	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.05	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
11	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.04	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
11	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.03	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
11	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	-0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
11	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.04	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
11	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
11	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.04	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
11	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
12	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
12	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
12	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
12	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
12	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
12	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
12	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
12	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
12	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
13	1	1.754e+04	0.0	0.05	-53.12	0.0	0.0	-68.96	0.0	0.0	0.0	1.754e+04
		5117.88	0.0	0.0	0.0	130.0	0.0	-122.08	0.0	0.0	0.0	5117.88
13	2	8.804e+04	0.0	0.25	-53.12	0.0	0.0	-440.59	0.0	0.0	0.0	8.804e+04
		2.731e+04	0.0	0.0	0.0	130.0	0.0	-493.71	0.0	0.0	0.0	2.731e+04
13	4	-9940.96	0.0	-0.08	-53.12	0.0	0.0	183.28	0.0	0.0	0.0	-3.031e+04
		-3.031e+04	0.0	0.0	0.0	130.0	0.0	130.16	0.0	0.0	0.0	-9940.96
13	5	1.110e+05	0.0	0.31	-53.12	0.0	0.0	-561.67	0.0	0.0	0.0	1.110e+05
		3.453e+04	0.0	0.0	0.0	130.0	0.0	-614.79	0.0	0.0	0.0	3.453e+04
13	9	1.306e+04	0.0	0.04	-40.86	0.0	0.0	-50.80	0.0	0.0	0.0	1.306e+04
		3802.97	0.0	0.0	0.0	130.0	0.0	-91.67	0.0	0.0	0.0	3802.97
13	10	6.006e+04	0.0	0.17	-40.86	0.0	0.0	-298.56	0.0	0.0	0.0	6.006e+04
		1.859e+04	0.0	0.0	0.0	130.0	0.0	-339.42	0.0	0.0	0.0	1.859e+04
13	12	-6236.26	0.0	-0.05	-40.86	0.0	0.0	117.36	0.0	0.0	0.0	-1.884e+04
		-1.884e+04	0.0	0.0	0.0	130.0	0.0	76.50	0.0	0.0	0.0	-6236.26
13	13	7.538e+04	0.0	0.21	-40.86	0.0	0.0	-379.28	0.0	0.0	0.0	7.538e+04
		2.341e+04	0.0	0.0	0.0	130.0	0.0	-420.14	0.0	0.0	0.0	2.341e+04
13	17	1.306e+04	0.0	0.04	-40.86	0.0	0.0	-50.80	0.0	0.0	0.0	1.306e+04
		3802.97	0.0	0.0	0.0	130.0	0.0	-91.67	0.0	0.0	0.0	3802.97
13	18	2.246e+04	0.0	0.06	-40.86	0.0	0.0	-100.36	0.0	0.0	0.0	2.246e+04
		6761.27	0.0	0.0	0.0	130.0	0.0	-141.22	0.0	0.0	0.0	6761.27
13	20	6683.47	0.0	0.02	-40.86	0.0	0.0	-17.17	0.0	0.0	0.0	6683.47
		1795.12	0.0	0.0	0.0	130.0	0.0	-58.03	0.0	0.0	0.0	1795.12
13	21	1.306e+04	0.0	0.04	-40.86	0.0	0.0	-50.80	0.0	0.0	0.0	1.306e+04
		3802.97	0.0	0.0	0.0	130.0	0.0	-91.67	0.0	0.0	0.0	3802.97

14	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
14	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-0.1059e+04
		-1.059e+04	0.0	0.10	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
14	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.08	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
14	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.05	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
14	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.07	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
14	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.06	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
14	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.05	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
14	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
14	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.04	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
14	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
15	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
15	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
15	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
15	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
15	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
15	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
15	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
15	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
15	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
16	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.02	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
16	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-0.1059e+04
		-1.059e+04	0.0	0.03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
16	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
16	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-9.68e-03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
16	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.02	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
16	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.02	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
16	17	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	6.44e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
16	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	7.18e-03	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
16	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	9.01e-03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
16	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	3.21e-03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
16	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	6.44e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
17	4	6.270e+04	2.508e+04	0.14	-30.47	0.0	0.0	-566.28	-251.07	0.0	2.508e+04	6.270e+04
		-1.289e+04	-4731.08	0.06	43.51	130.0	0.0	-596.75	-207.56	0.0	-4731.08	-1.289e+04
17	5	1.268e+04	4.306e+04	-0.14	-30.47	0.0	0.0	641.04	-406.80	0.0	4.306e+04	-6.868e+04
		-6.868e+04	-6999.79	0.08	43.51	130.0	0.0	610.58	-363.29	0.0	-6999.79	1.268e+04
17	6	1.866e+04	4.213e+04	0.04	-30.47	0.0	0.0	-162.24	-404.18	0.0	4.213e+04	1.866e+04
		-4414.61	-7581.64	0.09	43.51	130.0	0.0	-192.71	-360.67	0.0	-7581.64	-4414.61
17	7	1.667e+04	3.497e+04	-0.18	-30.47	0.0	0.0	825.79	-331.51	0.0	3.497e+04	-8.870e+04
		-8.870e+04	-5294.35	0.07	43.51	130.0	0.0	795.32	-287.99	0.0	-5294.35	1.667e+04
17	12	4.036e+04	1.878e+04	0.09	-23.44	0.0	0.0	-363.13	-187.94	0.0	1.878e+04	4.036e+04
		-8370.90	-3474.38	0.04	33.47	130.0	0.0	-386.56	-154.47	0.0	-3474.38	-8370.90
17	13	8677.59	3.077e+04	-0.10	-23.44	0.0	0.0	441.76	-291.76	0.0	3.077e+04	-4.723e+04
		-4.723e+04	-4986.86	0.06	33.47	130.0	0.0	418.32	-258.29	0.0	-4986.86	8677.59
17	14	1.099e+04	3.015e+04	0.03	-23.44	0.0	0.0	-93.77	-290.01	0.0	3.015e+04	1.099e+04
		-2718.77	-5374.76	0.06	33.47	130.0	0.0	-117.20	-256.54	0.0	-5374.76	-2718.77
17	15	1.134e+04	2.538e+04	-0.13	-23.44	0.0	0.0	564.92	-241.56	0.0	2.538e+04	-6.058e+04
		-6.058e+04	-3849.90	0.05	33.47	130.0	0.0	541.49	-208.09	0.0	-3849.90	1.134e+04
17	18	2467.54	2.158e+04	-0.03	-23.44	0.0	0.0	146.93	-209.84	0.0	2.158e+04	-1.511e+04

		-1.511e+04	-3524.02	0.04	33.47	130.0	0.0	123.50	-176.37	0.0	-3524.02	2467.54
17	19	3869.64	1.944e+04	-0.05	-23.44	0.0	0.0	212.07	-189.82	0.0	1.944e+04	-2.218e+04
		-2.218e+04	-3057.75	0.04	33.47	130.0	0.0	188.63	-156.34	0.0	-3057.75	3869.64
17	20	70.85	1.924e+04	-4.01e-03	-23.44	0.0	0.0	33.56	-189.23	0.0	1.924e+04	-2768.31
		-2768.31	-3187.05	0.04	33.47	130.0	0.0	10.12	-155.76	0.0	-3187.05	70.85
17	21	2181.29	1.935e+04	-0.03	-23.44	0.0	0.0	132.73	-189.56	0.0	1.935e+04	-1.355e+04
		-1.355e+04	-3115.21	0.04	33.47	130.0	0.0	109.29	-156.09	0.0	-3115.21	2181.29
18	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	1.66e-03	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
18	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-3.20e-04	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
18	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	1.81e-03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
18	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	1.91e-03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
18	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	1.17e-03	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
18	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-1.52e-04	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
18	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	1.27e-03	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
18	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	1.34e-03	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
18	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	6.49e-04	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
18	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	6.99e-04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
18	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	4.35e-04	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
18	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	5.82e-04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
19	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
19	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.10	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
19	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.11	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
19	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.04	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
19	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.07	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
19	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.08	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
19	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.03	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
19	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
19	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.01	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
19	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.02	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
20	3	0.0	0.0	-1.00	-236.51	0.0	-54.99	236.51	0.0	0.0	0.0	-1.301e+04
		-1.301e+04	0.0	0.07	0.0	110.0	-3.45e-04	-8.21e-05	0.0	0.0	0.0	0.0
20	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
20	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	0.11	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
20	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.09	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
20	11	0.0	0.0	-0.67	-160.36	0.0	-40.50	160.36	0.0	0.0	0.0	-8819.65
		-8819.65	0.0	0.05	0.0	110.0	-2.34e-04	-6.05e-05	0.0	0.0	0.0	0.0
20	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.04	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
20	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.08	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
20	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.06	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
20	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.05	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
20	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.05	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
20	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.05	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
20	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.05	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
21	4	6.222e+04	2.644e+04	0.14	-30.47	0.0	0.0	-565.11	-254.62	0.0	2.644e+04	6.222e+04
		-1.323e+04	-3829.88	0.05	43.51	130.0	0.0	-595.58	-211.11	0.0	-3829.88	-1.323e+04

21	5	1.517e+04	3.742e+04	-0.16	-30.47	0.0	0.0	631.55	-392.34	0.0	3.742e+04	-6.496e+04
		-6.496e+04	-1.075e+04	0.11	43.51	130.0	0.0	601.08	-348.83	0.0	-1.075e+04	1.517e+04
21	6	2.008e+04	4.050e+04	0.04	-30.47	0.0	0.0	-165.93	-400.04	0.0	4.050e+04	2.008e+04
		-3472.61	-8673.15	0.10	43.51	130.0	0.0	-196.40	-356.53	0.0	-8673.15	-3472.61
21	7	1.926e+04	2.891e+04	-0.20	-30.47	0.0	0.0	815.93	-315.93	0.0	2.891e+04	-8.483e+04
		-8.483e+04	-9332.06	0.09	43.51	130.0	0.0	785.47	-272.41	0.0	-9332.06	1.926e+04
21	12	4.016e+04	1.950e+04	0.09	-23.44	0.0	0.0	-362.68	-189.83	0.0	1.950e+04	4.016e+04
		-8507.09	-2997.86	0.04	33.47	130.0	0.0	-386.12	-156.36	0.0	-2997.86	-8507.09
21	13	1.042e+04	2.682e+04	-0.11	-23.44	0.0	0.0	435.10	-281.64	0.0	2.682e+04	-4.462e+04
		-4.462e+04	-7612.96	0.08	33.47	130.0	0.0	411.66	-248.17	0.0	-7612.96	1.042e+04
21	14	1.207e+04	2.888e+04	0.02	-23.44	0.0	0.0	-96.56	-286.77	0.0	2.888e+04	1.207e+04
		-2003.75	-6226.71	0.07	33.47	130.0	0.0	-120.00	-253.30	0.0	-6226.71	-2003.75
21	15	1.315e+04	2.115e+04	-0.14	-23.44	0.0	0.0	558.02	-230.70	0.0	2.115e+04	-5.787e+04
		-5.787e+04	-6665.98	0.07	33.47	130.0	0.0	534.58	-197.23	0.0	-6665.98	1.315e+04
21	18	3378.15	1.963e+04	-0.04	-23.44	0.0	0.0	143.43	-204.85	0.0	1.963e+04	-1.374e+04
		-1.374e+04	-4824.51	0.05	33.47	130.0	0.0	120.00	-171.37	0.0	-4824.51	3378.15
21	19	4838.67	1.730e+04	-0.05	-23.44	0.0	0.0	208.36	-184.32	0.0	1.730e+04	-2.072e+04
		-2.072e+04	-4486.79	0.05	33.47	130.0	0.0	184.92	-150.85	0.0	-4486.79	4838.67
21	20	696.88	1.798e+04	-8.33e-03	-23.44	0.0	0.0	31.14	-186.03	0.0	1.798e+04	-1827.58
		-1827.58	-4024.71	0.04	33.47	130.0	0.0	7.70	-152.56	0.0	-4024.71	696.88
21	21	2997.88	1.760e+04	-0.03	-23.44	0.0	0.0	129.59	-185.08	0.0	1.760e+04	-1.233e+04
		-1.233e+04	-4281.42	0.05	33.47	130.0	0.0	106.16	-151.61	0.0	-4281.42	2997.88
22	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
22	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
22	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
22	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
22	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
22	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
22	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
22	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
22	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
23	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-3.20e-04	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
23	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	1.81e-03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
23	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	1.91e-03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
23	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-1.52e-04	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
23	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	1.27e-03	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
23	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	1.34e-03	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
23	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	6.49e-04	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
23	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	6.99e-04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
23	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	4.35e-04	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
23	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	5.82e-04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
24	3	4.859e+04	-3761.32	-0.14	-30.47	0.0	0.0	269.05	-101.94	0.0	-3761.32	1.560e+04
		1.560e+04	-1.419e+04	0.04	43.51	130.0	0.0	238.58	-58.43	0.0	-1.419e+04	4.859e+04
24	4	-1.289e+04	-4731.08	0.11	-30.47	0.0	0.0	-178.76	-97.58	0.0	-4731.08	-1.289e+04
		-3.811e+04	-1.459e+04	0.04	43.51	130.0	0.0	-209.23	-54.07	0.0	-1.459e+04	-3.811e+04
24	6	-4414.61	-7581.64	0.03	-30.47	0.0	0.0	-43.29	-149.90	0.0	-7581.64	-4414.61
		-1.202e+04	-2.424e+04	0.07	43.51	130.0	0.0	-73.76	-106.39	0.0	-2.424e+04	-1.202e+04
24	7	5.200e+04	-5294.35	-0.15	-30.47	0.0	0.0	287.03	-127.62	0.0	-5294.35	1.667e+04
		1.667e+04	-1.906e+04	0.06	43.51	130.0	0.0	256.56	-84.11	0.0	-1.906e+04	5.200e+04
24	11	3.318e+04	-2827.88	-0.09	-23.44	0.0	0.0	185.26	-76.38	0.0	-2827.88	1.062e+04
		1.062e+04	-1.058e+04	0.03	33.47	130.0	0.0	161.82	-42.91	0.0	-1.058e+04	3.318e+04
24	12	-8370.90	-3474.38	0.07	-23.44	0.0	0.0	-113.28	-73.47	0.0	-3474.38	-8370.90
		-2.462e+04	-1.085e+04	0.03	33.47	130.0	0.0	-136.71	-40.00	0.0	-1.085e+04	-2.462e+04
24	14	-2718.77	-5374.76	0.02	-23.44	0.0	0.0	-22.96	-108.36	0.0	-5374.76	-2718.77
		-7227.33	-1.729e+04	0.05	33.47	130.0	0.0	-46.40	-74.89	0.0	-1.729e+04	-7227.33
24	15	3.546e+04	-3849.90	-0.10	-23.44	0.0	0.0	197.25	-93.50	0.0	-3849.90	1.134e+04
		1.134e+04	-1.383e+04	0.04	33.47	130.0	0.0	173.81	-60.03	0.0	-1.383e+04	3.546e+04
24	18	8402.46	-3524.02	-0.02	-23.44	0.0	0.0	57.37	-81.94	0.0	-3524.02	2467.54

		2467.54	-1.200e+04	0.03	33.47	130.0	0.0	33.93	-48.46	0.0	-1.200e+04	8402.46
24	19	1.263e+04	-3057.75	-0.04	-23.44	0.0	0.0	79.11	-75.35	0.0	-3057.75	3869.64
		3869.64	-1.068e+04	0.03	33.47	130.0	0.0	55.68	-41.88	0.0	-1.068e+04	1.263e+04
24	20	1114.93	-3187.05	-3.88e-03	-23.44	0.0	0.0	19.41	-74.76	0.0	-3187.05	70.85
		70.85	-1.073e+04	0.03	33.47	130.0	0.0	-4.03	-41.29	0.0	-1.073e+04	1070.24
24	21	7492.91	-3115.21	-0.02	-23.44	0.0	0.0	52.58	-75.09	0.0	-3115.21	2181.29
		2181.29	-1.070e+04	0.03	33.47	130.0	0.0	29.14	-41.62	0.0	-1.070e+04	7492.91
25	1	5117.88	0.0	0.06	-53.12	0.0	0.0	-256.34	0.0	0.0	0.0	5117.88
		-3.166e+04	0.0	0.0	0.0	130.0	0.0	-309.46	0.0	0.0	0.0	-3.166e+04
25	2	2.731e+04	0.0	0.31	-53.12	0.0	0.0	-1357.28	0.0	0.0	0.0	2.731e+04
		-1.526e+05	0.0	0.0	0.0	130.0	0.0	-1410.40	0.0	0.0	0.0	-1.526e+05
25	4	5.042e+04	0.0	-0.10	-53.12	0.0	0.0	490.90	0.0	0.0	0.0	-9940.96
		-9940.96	0.0	0.0	0.0	130.0	0.0	437.78	0.0	0.0	0.0	5.042e+04
25	5	3.453e+04	0.0	0.39	-53.12	0.0	0.0	-1715.95	0.0	0.0	0.0	3.453e+04
		-1.920e+05	0.0	0.0	0.0	130.0	0.0	-1769.07	0.0	0.0	0.0	-1.920e+05
25	9	3802.97	0.0	0.05	-40.86	0.0	0.0	-190.55	0.0	0.0	0.0	3802.97
		-2.362e+04	0.0	0.0	0.0	130.0	0.0	-231.41	0.0	0.0	0.0	-2.362e+04
25	10	1.859e+04	0.0	0.21	-40.86	0.0	0.0	-924.50	0.0	0.0	0.0	1.859e+04
		-1.042e+05	0.0	0.0	0.0	130.0	0.0	-965.36	0.0	0.0	0.0	-1.042e+05
25	12	3.110e+04	0.0	-0.06	-40.86	0.0	0.0	307.62	0.0	0.0	0.0	-6236.26
		-6236.26	0.0	0.0	0.0	130.0	0.0	266.75	0.0	0.0	0.0	3.110e+04
25	13	2.341e+04	0.0	0.26	-40.86	0.0	0.0	-1163.62	0.0	0.0	0.0	2.341e+04
		-1.305e+05	0.0	0.0	0.0	130.0	0.0	-1204.48	0.0	0.0	0.0	-1.305e+05
25	17	3802.97	0.0	0.05	-40.86	0.0	0.0	-190.55	0.0	0.0	0.0	3802.97
		-2.362e+04	0.0	0.0	0.0	130.0	0.0	-231.41	0.0	0.0	0.0	-2.362e+04
25	18	6761.27	0.0	0.08	-40.86	0.0	0.0	-337.34	0.0	0.0	0.0	6761.27
		-3.975e+04	0.0	0.0	0.0	130.0	0.0	-378.20	0.0	0.0	0.0	-3.975e+04
25	20	1795.12	0.0	0.02	-40.86	0.0	0.0	-90.91	0.0	0.0	0.0	1795.12
		-1.268e+04	0.0	0.0	0.0	130.0	0.0	-131.77	0.0	0.0	0.0	-1.268e+04
25	21	3802.97	0.0	0.05	-40.86	0.0	0.0	-190.55	0.0	0.0	0.0	3802.97
		-2.362e+04	0.0	0.0	0.0	130.0	0.0	-231.41	0.0	0.0	0.0	-2.362e+04
26	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
26	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
26	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
26	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
26	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
26	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
26	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
26	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
26	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
27	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	-0.06	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
27	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
27	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.10	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
27	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.08	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
27	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	-0.08	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
27	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	-0.04	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
27	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.05	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
27	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.07	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
27	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.06	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
27	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	-0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
27	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.05	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
27	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
27	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.04	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
27	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66

		1.178e+04	-1.383e+04	-0.04	33.47	130.0	0.0	-193.86	88.04	0.0	-4560.02	1.178e+04
33	18	8402.46	-3848.06	0.02	-23.44	0.0	0.0	-32.19	45.97	0.0	-1.200e+04	8402.46
		2694.43	-1.200e+04	-0.03	33.47	130.0	0.0	-55.63	79.44	0.0	-3848.06	2694.43
33	19	1.263e+04	-3415.50	0.04	-23.44	0.0	0.0	-53.84	39.12	0.0	-1.068e+04	1.263e+04
		4108.67	-1.068e+04	-0.03	33.47	130.0	0.0	-77.28	72.59	0.0	-3415.50	4108.67
33	20	1145.78	-3393.65	3.39e-03	-23.44	0.0	0.0	5.25	39.70	0.0	-1.073e+04	1070.24
		229.85	-1.073e+04	-0.03	33.47	130.0	0.0	-18.18	73.18	0.0	-3393.65	229.85
33	21	7492.91	-3405.79	0.02	-23.44	0.0	0.0	-27.58	39.38	0.0	-1.070e+04	7492.91
		2384.75	-1.070e+04	-0.03	33.47	130.0	0.0	-51.01	72.85	0.0	-3405.79	2384.75
34	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
34	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.0	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
34	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.0	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
34	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
34	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.0	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
34	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.0	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
34	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.0	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
34	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.0	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
34	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
34	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.0	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
35	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	2.19e-03	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
35	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-6.03e-03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
35	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-6.73e-03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
35	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	1.27e-03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
35	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-4.21e-03	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
35	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-4.67e-03	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
35	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-1.95e-03	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
35	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-2.23e-03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
35	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-1.15e-03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
35	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-1.75e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
36	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
36	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
36	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
36	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
36	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
36	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
36	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
36	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
36	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
38	3	0.0	0.0	-1.00	-236.51	0.0	-54.99	236.51	0.0	0.0	0.0	-1.301e+04
		-1.301e+04	0.0	0.05	0.0	110.0	-3.45e-04	-8.21e-05	0.0	0.0	0.0	0.0
38	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.04	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
38	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	0.08	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
38	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.07	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
38	11	0.0	0.0	-0.67	-160.36	0.0	-40.50	160.36	0.0	0.0	0.0	-8819.65
		-8819.65	0.0	0.04	0.0	110.0	-2.34e-04	-6.05e-05	0.0	0.0	0.0	0.0

38	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
38	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.06	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
38	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.05	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
38	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.04	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
38	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
38	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
38	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
39	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.0	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
39	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	0.0	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
39	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.0	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
39	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.0	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
39	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.0	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
39	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.0	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
39	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.0	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
39	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.0	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
39	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.0	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
39	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.0	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
40	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
40	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
40	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
40	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
40	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
40	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
40	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
40	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
40	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
41	1	1.849e+04	0.0	-0.06	-53.12	0.0	0.0	125.75	0.0	0.0	0.0	5595.39
		5595.39	0.0	0.0	0.0	130.0	0.0	72.63	0.0	0.0	0.0	1.849e+04
41	2	9.264e+04	0.0	-0.27	-53.12	0.0	0.0	511.42	0.0	0.0	0.0	2.961e+04
		2.961e+04	0.0	0.0	0.0	130.0	0.0	458.30	0.0	0.0	0.0	9.264e+04
41	4	-1.070e+04	0.0	0.09	-53.12	0.0	0.0	-136.02	0.0	0.0	0.0	-1.070e+04
		-3.184e+04	0.0	0.0	0.0	130.0	0.0	-189.13	0.0	0.0	0.0	-3.184e+04
41	5	1.168e+05	0.0	-0.35	-53.12	0.0	0.0	637.07	0.0	0.0	0.0	3.743e+04
		3.743e+04	0.0	0.0	0.0	130.0	0.0	583.95	0.0	0.0	0.0	1.168e+05
41	9	1.378e+04	0.0	-0.04	-40.86	0.0	0.0	94.41	0.0	0.0	0.0	4159.29
		4159.29	0.0	0.0	0.0	130.0	0.0	53.55	0.0	0.0	0.0	1.378e+04
41	10	6.321e+04	0.0	-0.19	-40.86	0.0	0.0	351.52	0.0	0.0	0.0	2.017e+04
		2.017e+04	0.0	0.0	0.0	130.0	0.0	310.65	0.0	0.0	0.0	6.321e+04
41	12	-6705.57	0.0	0.06	-40.86	0.0	0.0	-80.11	0.0	0.0	0.0	-6705.57
		-1.978e+04	0.0	0.0	0.0	130.0	0.0	-120.97	0.0	0.0	0.0	-1.978e+04
41	13	7.931e+04	0.0	-0.23	-40.86	0.0	0.0	435.28	0.0	0.0	0.0	2.538e+04
		2.538e+04	0.0	0.0	0.0	130.0	0.0	394.42	0.0	0.0	0.0	7.931e+04
41	17	1.378e+04	0.0	-0.04	-40.86	0.0	0.0	94.41	0.0	0.0	0.0	4159.29
		4159.29	0.0	0.0	0.0	130.0	0.0	53.55	0.0	0.0	0.0	1.378e+04
41	18	2.366e+04	0.0	-0.07	-40.86	0.0	0.0	145.83	0.0	0.0	0.0	7360.78
		7360.78	0.0	0.0	0.0	130.0	0.0	104.97	0.0	0.0	0.0	2.366e+04
41	20	7065.85	0.0	-0.02	-40.86	0.0	0.0	59.50	0.0	0.0	0.0	1986.32
		1986.32	0.0	0.0	0.0	130.0	0.0	18.64	0.0	0.0	0.0	7065.85
41	21	1.378e+04	0.0	-0.04	-40.86	0.0	0.0	94.41	0.0	0.0	0.0	4159.29
		4159.29	0.0	0.0	0.0	130.0	0.0	53.55	0.0	0.0	0.0	1.378e+04
42	4	6.258e+04	2.556e+04	-0.13	-30.47	0.0	0.0	596.28	209.41	0.0	-4490.69	-1.295e+04

		-1.295e+04	-4490.69	-0.05	43.51	130.0	0.0	565.81	252.92	0.0	2.556e+04	6.258e+04
42	5	1.329e+04	4.117e+04	0.14	-30.47	0.0	0.0	-605.90	356.04	0.0	-7942.44	1.329e+04
		-6.746e+04	-7942.44	-0.09	43.51	130.0	0.0	-636.36	399.55	0.0	4.117e+04	-6.746e+04
42	6	1.915e+04	4.161e+04	-0.04	-30.47	0.0	0.0	194.62	358.65	0.0	-7844.10	-4166.32
		-4166.32	-7844.10	-0.09	43.51	130.0	0.0	164.15	402.16	0.0	4.161e+04	1.915e+04
42	7	1.730e+04	3.294e+04	0.19	-30.47	0.0	0.0	-790.50	280.16	0.0	-6313.08	1.730e+04
		-8.745e+04	-6313.08	-0.07	43.51	130.0	0.0	-820.97	323.67	0.0	3.294e+04	-8.745e+04
42	12	4.032e+04	1.904e+04	-0.09	-23.44	0.0	0.0	386.42	155.47	0.0	-3345.09	-8389.75
		-8389.75	-3345.09	-0.04	33.47	130.0	0.0	362.98	188.94	0.0	1.904e+04	4.032e+04
42	13	9104.90	2.945e+04	0.10	-23.44	0.0	0.0	-415.03	253.21	0.0	-5646.26	9104.90
		-4.637e+04	-5646.26	-0.06	33.47	130.0	0.0	-438.47	286.69	0.0	2.945e+04	-4.637e+04
42	14	1.137e+04	2.974e+04	-0.02	-23.44	0.0	0.0	118.64	254.96	0.0	-5580.70	-2531.56
		-2531.56	-5580.70	-0.06	33.47	130.0	0.0	95.21	288.43	0.0	2.974e+04	1.137e+04
42	15	1.178e+04	2.396e+04	0.13	-23.44	0.0	0.0	-538.10	202.63	0.0	-4560.02	1.178e+04
		-5.970e+04	-4560.02	-0.05	33.47	130.0	0.0	-561.54	236.10	0.0	2.396e+04	-5.970e+04
42	18	2694.43	2.093e+04	0.03	-23.44	0.0	0.0	-121.75	173.88	0.0	-3848.06	2694.43
		-1.466e+04	-3848.06	-0.04	33.47	130.0	0.0	-145.19	207.35	0.0	2.093e+04	-1.466e+04
42	19	4108.67	1.873e+04	0.05	-23.44	0.0	0.0	-186.79	153.59	0.0	-3415.50	4108.67
		-2.170e+04	-3415.50	-0.04	33.47	130.0	0.0	-210.23	187.06	0.0	1.873e+04	-2.170e+04
42	20	229.85	1.882e+04	4.65e-03	-23.44	0.0	0.0	-8.90	154.17	0.0	-3393.65	229.85
		-2450.30	-3393.65	-0.04	33.47	130.0	0.0	-32.33	187.64	0.0	1.882e+04	-2450.30
42	21	2384.75	1.877e+04	0.03	-23.44	0.0	0.0	-107.73	153.85	0.0	-3405.79	2384.75
		-1.314e+04	-3405.79	-0.04	33.47	130.0	0.0	-131.16	187.32	0.0	1.877e+04	-1.314e+04
43	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	0.06	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
43	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
43	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.10	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
43	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.08	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
43	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	1.052e+04
		-1.14e-05	0.0	0.08	0.0	110.0	80.19	191.35	0.0	0.0	0.0	-1.14e-05
43	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	0.04	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
43	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.05	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
43	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.07	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
43	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.06	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
43	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	6868.44
		-7.63e-06	0.0	0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	-7.63e-06
43	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.05	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
43	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
43	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.04	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
43	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
44	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
44	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
44	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
44	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
44	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
44	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
44	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
44	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
44	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
45	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
45	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.10	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-1.059e+04
45	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.11	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.398e+04
45	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.04	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0

45	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.07	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
45	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.08	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
45	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.03	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
45	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
45	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.01	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
45	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.02	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
46	3	8.260e+04	-1768.45	-0.23	-30.47	0.0	0.0	452.01	-171.06	0.0	-1768.45	2.582e+04
		2.582e+04	-2.118e+04	0.18	43.51	130.0	0.0	421.54	-127.55	0.0	-2.118e+04	8.260e+04
46	4	-2.318e+04	-1.079e+04	0.13	-30.47	0.0	0.0	-312.24	-147.17	0.0	-1.079e+04	-2.318e+04
		-6.575e+04	-2.709e+04	0.02	43.51	130.0	0.0	-342.71	-103.65	0.0	-2.709e+04	-6.575e+04
46	6	-9427.59	-1.287e+04	0.01	-30.47	0.0	0.0	-79.18	-242.78	0.0	-1.287e+04	-9427.59
		-2.170e+04	-4.160e+04	0.12	43.51	130.0	0.0	-109.65	-199.26	0.0	-4.160e+04	-2.170e+04
46	7	8.815e+04	-3812.07	-0.25	-30.47	0.0	0.0	483.62	-216.21	0.0	-3812.07	2.726e+04
		2.726e+04	-2.909e+04	0.21	43.51	130.0	0.0	453.16	-172.70	0.0	-2.909e+04	8.815e+04
46	11	5.638e+04	-1625.27	-0.16	-23.44	0.0	0.0	310.60	-127.27	0.0	-1625.27	1.753e+04
		1.753e+04	-1.599e+04	0.13	33.47	130.0	0.0	287.16	-93.79	0.0	-1.599e+04	5.638e+04
46	12	-1.514e+04	-7637.66	0.08	-23.44	0.0	0.0	-198.90	-111.34	0.0	-7637.66	-1.514e+04
		-4.252e+04	-1.994e+04	0.02	33.47	130.0	0.0	-222.34	-77.86	0.0	-1.994e+04	-4.252e+04
46	14	-5972.55	-9026.41	-5.66e-03	-23.44	0.0	0.0	-43.53	-175.08	0.0	-9026.41	-5972.55
		-1.315e+04	-2.961e+04	0.09	33.47	130.0	0.0	-66.96	-141.61	0.0	-2.961e+04	-1.315e+04
46	15	6.008e+04	-2987.69	-0.18	-23.44	0.0	0.0	331.68	-157.37	0.0	-2987.69	1.848e+04
		1.848e+04	-2.127e+04	0.15	33.47	130.0	0.0	308.24	-123.90	0.0	-2.127e+04	6.008e+04
46	18	1.390e+04	-4842.41	-0.06	-23.44	0.0	0.0	92.59	-132.23	0.0	-4842.41	3390.68
		3390.68	-1.986e+04	0.09	33.47	130.0	0.0	69.15	-98.75	0.0	-1.986e+04	1.390e+04
46	19	2.122e+04	-3763.01	-0.08	-23.44	0.0	0.0	129.44	-121.60	0.0	-3763.01	5912.99
		5912.99	-1.740e+04	0.09	33.47	130.0	0.0	106.01	-88.13	0.0	-1.740e+04	2.122e+04
46	20	1436.50	-4965.49	-0.03	-23.44	0.0	0.0	27.54	-118.42	0.0	-4965.49	-620.77
		-620.77	-1.818e+04	0.06	33.47	130.0	0.0	4.11	-84.94	0.0	-1.818e+04	1436.50
46	21	1.243e+04	-4297.45	-0.05	-23.44	0.0	0.0	84.15	-120.19	0.0	-4297.45	3009.10
		3009.10	-1.775e+04	0.08	33.47	130.0	0.0	60.72	-86.71	0.0	-1.775e+04	1.243e+04
47	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
47	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
47	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
47	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
47	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
47	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
47	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
47	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
47	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
48	2	-2.29e-05	0.0	-0.06	-73.79	0.0	-105.38	73.79	0.0	0.0	0.0	-4058.40
		-4058.40	0.0	0.10	0.0	110.0	-1.11e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
48	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
48	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	0.10	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
48	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.08	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
48	10	-1.53e-05	0.0	-0.04	-51.88	0.0	-74.09	51.88	0.0	0.0	0.0	-2853.41
		-2853.41	0.0	0.07	0.0	110.0	-7.82e-05	-1.09e-04	0.0	0.0	0.0	-1.53e-05
48	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.05	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
48	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.07	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
48	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.06	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
48	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.05	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
48	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
48	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.04	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
48	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66

		-1559.66	0.0	0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
49	4	6.258e+04	2.556e+04	0.13	-30.47	0.0	0.0	-565.81	-252.92	0.0	2.556e+04	6.258e+04
		-1.295e+04	-4490.69	0.05	43.51	130.0	0.0	-596.28	-209.41	0.0	-4490.69	-1.295e+04
49	5	1.329e+04	4.117e+04	-0.14	-30.47	0.0	0.0	636.36	-399.55	0.0	4.117e+04	-6.746e+04
		-6.746e+04	-7942.44	0.09	43.51	130.0	0.0	605.90	-356.04	0.0	-7942.44	1.329e+04
49	6	1.915e+04	4.161e+04	0.04	-30.47	0.0	0.0	-164.15	-402.16	0.0	4.161e+04	1.915e+04
		-4166.32	-7844.10	0.09	43.51	130.0	0.0	-194.62	-358.65	0.0	-7844.10	-4166.32
49	7	1.730e+04	3.294e+04	-0.19	-30.47	0.0	0.0	820.97	-323.67	0.0	3.294e+04	-8.745e+04
		-8.745e+04	-6313.08	0.07	43.51	130.0	0.0	790.50	-280.16	0.0	-6313.08	1.730e+04
49	12	4.032e+04	1.904e+04	0.09	-23.44	0.0	0.0	-362.98	-188.94	0.0	1.904e+04	4.032e+04
		-8389.75	-3345.09	0.04	33.47	130.0	0.0	-386.42	-155.47	0.0	-3345.09	-8389.75
49	13	9104.90	2.945e+04	-0.10	-23.44	0.0	0.0	438.47	-286.69	0.0	2.945e+04	-4.637e+04
		-4.637e+04	-5646.26	0.06	33.47	130.0	0.0	415.03	-253.21	0.0	-5646.26	9104.90
49	14	1.137e+04	2.974e+04	0.02	-23.44	0.0	0.0	-95.21	-288.43	0.0	2.974e+04	1.137e+04
		-2531.56	-5580.70	0.06	33.47	130.0	0.0	-118.64	-254.96	0.0	-5580.70	-2531.56
49	15	1.178e+04	2.396e+04	-0.13	-23.44	0.0	0.0	561.54	-236.10	0.0	2.396e+04	-5.970e+04
		-5.970e+04	-4560.02	0.05	33.47	130.0	0.0	538.10	-202.63	0.0	-4560.02	1.178e+04
49	18	2694.43	2.093e+04	-0.03	-23.44	0.0	0.0	145.19	-207.35	0.0	2.093e+04	-1.466e+04
		-1.466e+04	-3848.06	0.04	33.47	130.0	0.0	121.75	-173.88	0.0	-3848.06	2694.43
49	19	4108.67	1.873e+04	-0.05	-23.44	0.0	0.0	210.23	-187.06	0.0	1.873e+04	-2.170e+04
		-2.170e+04	-3415.50	0.04	33.47	130.0	0.0	186.79	-153.59	0.0	-3415.50	4108.67
49	20	229.85	1.882e+04	-4.65e-03	-23.44	0.0	0.0	32.33	-187.64	0.0	1.882e+04	-2450.30
		-2450.30	-3393.65	0.04	33.47	130.0	0.0	8.90	-154.17	0.0	-3393.65	229.85
49	21	2384.75	1.877e+04	-0.03	-23.44	0.0	0.0	131.16	-187.32	0.0	1.877e+04	-1.314e+04
		-1.314e+04	-3405.79	0.04	33.47	130.0	0.0	107.73	-153.85	0.0	-3405.79	2384.75
50	1	1.849e+04	0.0	0.05	-53.12	0.0	0.0	-61.63	0.0	0.0	0.0	1.849e+04
		7025.82	0.0	0.0	0.0	130.0	0.0	-114.75	0.0	0.0	0.0	7025.82
50	2	9.264e+04	0.0	0.25	-53.12	0.0	0.0	-405.27	0.0	0.0	0.0	9.264e+04
		3.650e+04	0.0	0.0	0.0	130.0	0.0	-458.39	0.0	0.0	0.0	3.650e+04
50	4	-1.298e+04	0.0	-0.08	-53.12	0.0	0.0	171.60	0.0	0.0	0.0	-3.184e+04
		-3.184e+04	0.0	0.0	0.0	130.0	0.0	118.48	0.0	0.0	0.0	-1.298e+04
50	5	1.168e+05	0.0	0.31	-53.12	0.0	0.0	-517.22	0.0	0.0	0.0	1.168e+05
		4.610e+04	0.0	0.0	0.0	130.0	0.0	-570.34	0.0	0.0	0.0	4.610e+04
50	9	1.378e+04	0.0	0.04	-40.86	0.0	0.0	-45.33	0.0	0.0	0.0	1.378e+04
		5226.65	0.0	0.0	0.0	130.0	0.0	-86.20	0.0	0.0	0.0	5226.65
50	10	6.321e+04	0.0	0.17	-40.86	0.0	0.0	-274.43	0.0	0.0	0.0	6.321e+04
		2.488e+04	0.0	0.0	0.0	130.0	0.0	-315.29	0.0	0.0	0.0	2.488e+04
50	12	-8111.42	0.0	-0.05	-40.86	0.0	0.0	110.15	0.0	0.0	0.0	-1.978e+04
		-1.978e+04	0.0	0.0	0.0	130.0	0.0	69.29	0.0	0.0	0.0	-8111.42
50	13	7.931e+04	0.0	0.21	-40.86	0.0	0.0	-349.06	0.0	0.0	0.0	7.931e+04
		3.128e+04	0.0	0.0	0.0	130.0	0.0	-389.92	0.0	0.0	0.0	3.128e+04
50	17	1.378e+04	0.0	0.04	-40.86	0.0	0.0	-45.33	0.0	0.0	0.0	1.378e+04
		5226.65	0.0	0.0	0.0	130.0	0.0	-86.20	0.0	0.0	0.0	5226.65
50	18	2.366e+04	0.0	0.06	-40.86	0.0	0.0	-91.15	0.0	0.0	0.0	2.366e+04
		9156.63	0.0	0.0	0.0	130.0	0.0	-132.01	0.0	0.0	0.0	9156.63
50	20	7065.85	0.0	0.02	-40.86	0.0	0.0	-14.24	0.0	0.0	0.0	7065.85
		2559.04	0.0	0.0	0.0	130.0	0.0	-55.10	0.0	0.0	0.0	2559.04
50	21	1.378e+04	0.0	0.04	-40.86	0.0	0.0	-45.33	0.0	0.0	0.0	1.378e+04
		5226.65	0.0	0.0	0.0	130.0	0.0	-86.20	0.0	0.0	0.0	5226.65
51	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
51	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0
51	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
51	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
51	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0
51	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
51	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
51	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
51	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
52	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	-1.66e-03	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
52	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	3.20e-04	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
52	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-1.81e-03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
52	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-1.91e-03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
52	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	-1.17e-03	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65

52	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	1.52e-04	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
52	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-1.27e-03	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
52	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-1.34e-03	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
52	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	-1.58e-05	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
52	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-6.49e-04	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
52	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-6.99e-04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
52	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-4.35e-04	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
52	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-5.82e-04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
53	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	-0.03	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
53	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.21	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
53	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.13	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
53	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.06	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
53	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	-0.25	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
53	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	-0.03	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
53	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.15	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
53	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.10	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
53	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.05	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
53	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	-0.17	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
53	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.09	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
53	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.07	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
53	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.09	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
53	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.08	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
54	4	6.974e+04	2.545e+04	0.07	-30.47	0.0	0.0	-580.52	-250.09	0.0	2.545e+04	6.974e+04
		-7704.40	-4232.26	0.03	43.51	130.0	0.0	-610.99	-206.58	0.0	-4232.26	-7704.40
54	5	3773.58	5.620e+04	-0.06	-30.47	0.0	0.0	670.30	-439.29	0.0	5.620e+04	-8.138e+04
		-8.138e+04	1923.70	0.03	43.51	130.0	0.0	639.83	-395.77	0.0	1923.70	3773.58
54	7	6111.49	4.799e+04	-0.08	-30.47	0.0	0.0	859.58	-364.27	0.0	4.799e+04	-1.037e+05
		-1.037e+05	3460.11	-0.02	43.51	130.0	0.0	829.11	-320.76	0.0	3460.11	6111.49
54	8	6.248e+04	3.583e+04	0.06	-30.47	0.0	0.0	-523.86	-331.02	0.0	3.583e+04	6.248e+04
		-7604.00	-4375.65	0.04	43.51	130.0	0.0	-554.33	-287.51	0.0	-4375.65	-7604.00
54	12	4.470e+04	1.953e+04	0.04	-23.44	0.0	0.0	-371.78	-188.49	0.0	1.953e+04	4.470e+04
		-5152.14	-2798.85	0.02	33.47	130.0	0.0	-395.22	-155.02	0.0	-2798.85	-5152.14
54	13	2499.86	4.003e+04	-0.04	-23.44	0.0	0.0	462.10	-314.62	0.0	4.003e+04	-5.605e+04
		-5.605e+04	1305.13	0.02	33.47	130.0	0.0	438.66	-281.14	0.0	1305.13	2499.86
54	15	4058.46	3.455e+04	-0.06	-23.44	0.0	0.0	588.29	-264.61	0.0	3.455e+04	-7.090e+04
		-7.090e+04	2329.40	0.01	33.47	130.0	0.0	564.85	-231.14	0.0	2329.40	4058.46
54	16	3.986e+04	2.645e+04	0.04	-23.44	0.0	0.0	-334.00	-242.44	0.0	2.645e+04	3.986e+04
		-5085.20	-2894.44	0.03	33.47	130.0	0.0	-357.44	-208.97	0.0	-2894.44	-5085.20
54	18	-45.55	2.680e+04	-0.01	-23.44	0.0	0.0	155.71	-222.38	0.0	2.680e+04	-1.876e+04
		-1.876e+04	65.05	0.02	33.47	130.0	0.0	132.28	-188.91	0.0	65.05	-45.55
54	19	740.45	2.475e+04	-0.02	-23.44	0.0	0.0	222.59	-202.77	0.0	2.475e+04	-2.667e+04
		-2.667e+04	567.63	0.01	33.47	130.0	0.0	199.15	-169.30	0.0	567.63	740.45
54	20	-1088.29	2.313e+04	2.66e-03	-23.44	0.0	0.0	38.13	-198.34	0.0	2.313e+04	-4521.40
		-4521.40	-477.14	0.02	33.47	130.0	0.0	14.69	-164.87	0.0	-477.14	-1088.29
54	21	-72.32	2.403e+04	-9.95e-03	-23.44	0.0	0.0	140.60	-200.80	0.0	2.403e+04	-1.683e+04
		-1.683e+04	103.29	0.01	33.47	130.0	0.0	117.17	-167.33	0.0	103.29	-72.32
55	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
55	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
55	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
55	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
55	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79

		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0	-2.045e+04
55	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	-2719.21
55	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0	0.0
55	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	1	7025.82	0.0	0.08	-53.12	0.0	0.0	-249.01	0.0	0.0	0.0	0.0	7025.82
		-2.880e+04	0.0	0.0	0.0	130.0	0.0	-302.13	0.0	0.0	0.0	0.0	-2.880e+04
56	2	3.650e+04	0.0	0.37	-53.12	0.0	0.0	-1321.95	0.0	0.0	0.0	0.0	3.650e+04
		-1.388e+05	0.0	0.0	0.0	130.0	0.0	-1375.07	0.0	0.0	0.0	0.0	-1.388e+05
56	4	4.586e+04	0.0	-0.12	-53.12	0.0	0.0	479.22	0.0	0.0	0.0	0.0	-1.298e+04
		-1.298e+04	0.0	0.0	0.0	130.0	0.0	426.10	0.0	0.0	0.0	0.0	4.586e+04
56	5	4.610e+04	0.0	0.47	-53.12	0.0	0.0	-1671.50	0.0	0.0	0.0	0.0	4.610e+04
		-1.746e+05	0.0	0.0	0.0	130.0	0.0	-1724.62	0.0	0.0	0.0	0.0	-1.746e+05
56	9	5226.65	0.0	0.06	-40.86	0.0	0.0	-185.08	0.0	0.0	0.0	0.0	5226.65
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	-225.94	0.0	0.0	0.0	0.0	-2.149e+04
56	10	2.488e+04	0.0	0.25	-40.86	0.0	0.0	-900.37	0.0	0.0	0.0	0.0	2.488e+04
		-9.483e+04	0.0	0.0	0.0	130.0	0.0	-941.23	0.0	0.0	0.0	0.0	-9.483e+04
56	12	2.829e+04	0.0	-0.08	-40.86	0.0	0.0	300.41	0.0	0.0	0.0	0.0	-8111.42
		-8111.42	0.0	0.0	0.0	130.0	0.0	259.55	0.0	0.0	0.0	0.0	2.829e+04
56	13	3.128e+04	0.0	0.32	-40.86	0.0	0.0	-1133.40	0.0	0.0	0.0	0.0	3.128e+04
		-1.187e+05	0.0	0.0	0.0	130.0	0.0	-1174.26	0.0	0.0	0.0	0.0	-1.187e+05
56	17	5226.65	0.0	0.06	-40.86	0.0	0.0	-185.08	0.0	0.0	0.0	0.0	5226.65
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	-225.94	0.0	0.0	0.0	0.0	-2.149e+04
56	18	9156.63	0.0	0.10	-40.86	0.0	0.0	-328.13	0.0	0.0	0.0	0.0	9156.63
		-3.616e+04	0.0	0.0	0.0	130.0	0.0	-369.00	0.0	0.0	0.0	0.0	-3.616e+04
56	20	2559.04	0.0	0.03	-40.86	0.0	0.0	-87.98	0.0	0.0	0.0	0.0	2559.04
		-1.153e+04	0.0	0.0	0.0	130.0	0.0	-128.84	0.0	0.0	0.0	0.0	-1.153e+04
56	21	5226.65	0.0	0.06	-40.86	0.0	0.0	-185.08	0.0	0.0	0.0	0.0	5226.65
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	-225.94	0.0	0.0	0.0	0.0	-2.149e+04
57	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	0.0	1.149e+04
		0.0	0.0	3.20e-04	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0	0.0
57	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-1.81e-03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	0.0	-1.059e+04
57	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-1.91e-03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	0.0	-1.398e+04
57	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	0.0	7515.31
		0.0	0.0	1.52e-04	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0	0.0
57	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-1.27e-03	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	0.0	-7209.40
57	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-1.34e-03	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	0.0	-9466.52
57	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-6.49e-04	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	0.0	-1818.41
57	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	0.0	0.0
		-3011.66	0.0	-6.99e-04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0	-3011.66
57	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	0.0	255.33
		0.0	0.0	-4.35e-04	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0	0.0
57	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-5.82e-04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0	-1559.66
58	4	-1.295e+04	-4490.69	0.10	-30.47	0.0	0.0	-178.29	-99.43	0.0	-4490.69	-1.295e+04	-4490.69
		-3.811e+04	-1.459e+04	0.04	43.51	130.0	0.0	-208.76	-55.92	0.0	-1.459e+04	-3.811e+04	-1.459e+04
58	6	-4166.32	-7844.10	0.03	-30.47	0.0	0.0	-45.20	-147.89	0.0	-7844.10	-4166.32	-7844.10
		-1.202e+04	-2.424e+04	0.07	43.51	130.0	0.0	-75.67	-104.37	0.0	-2.424e+04	-1.202e+04	-2.424e+04
58	7	5.200e+04	-6313.08	-0.14	-30.47	0.0	0.0	282.20	-119.78	0.0	-6313.08	5.200e+04	-6313.08
		1.730e+04	-1.906e+04	0.05	43.51	130.0	0.0	251.73	-76.27	0.0	-1.906e+04	1.730e+04	-1.906e+04
58	12	-8389.75	-3345.09	0.07	-23.44	0.0	0.0	-113.13	-74.47	0.0	-3345.09	-8389.75	-3345.09
		-2.462e+04	-1.085e+04	0.03	33.47	130.0	0.0	-136.57	-41.00	0.0	-1.085e+04	-2.462e+04	-1.085e+04
58	14	-2531.56	-5580.70	0.02	-23.44	0.0	0.0	-24.40	-106.77	0.0	-5580.70	-2531.56	-5580.70
		-7227.33	-1.729e+04	0.05	33.47	130.0	0.0	-47.84	-73.30	0.0	-1.729e+04	-7227.33	-1.729e+04
58	15	3.546e+04	-4560.02	-0.10	-23.44	0.0	0.0	193.86	-88.04	0.0	-4560.02	3.546e+04	-4560.02
		1.178e+04	-1.383e+04	0.04	33.47	130.0	0.0	170.43	-54.57	0.0	-1.383e+04	1.178e+04	-1.383e+04
58	18	8402.46	-3848.06	-0.02	-23.44	0.0	0.0	55.63	-79.44	0.0	-3848.06	8402.46	-3848.06
		2694.43	-1.200e+04	0.03	33.47	130.0	0.0	32.19	-45.97	0.0	-1.200e+04	2694.43	-1.200e+04
58	19	1.263e+04	-3415.50	-0.04	-23.44	0.0	0.0	77.28	-72.59	0.0	-3415.50	1.263e+04	-3415.50
		4108.67	-1.068e+04	0.03	33.47	130.0	0.0	53.84	-39.12	0.0	-1.068e+04	4108.67	-1.068e+04
58	20	1145.78	-3393.65	-3.39e-03	-23.44	0.0	0.0	18.18	-73.18	0.0	-3393.65	1145.78	-3393.65
		229.85	-1.073e+04	0.03	33.47	130.0	0.0	-5.25	-39.70	0.0	-1.073e+04	229.85	-1.073e+04
58	21	7492.91	-3405.79	-0.02	-23.44	0.0	0.0	51.01	-72.85	0.0	-3405.79	7492.91	-3405.79
		2384.75	-1.070e+04	0.03	33.47	130.0	0.0	27.58	-39.38	0.0	-1.070e+04	2384.75	-1.070e+04
59	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	0.0	0.0
59	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.10	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	0.0	-1.059e+04

59	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.08	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	0.0-1.398e+04
59	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	-0.08	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
59	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.05	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
59	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.07	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
59	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.06	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
59	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	-0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
59	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.05	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
59	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
59	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.04	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
59	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
60	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
60	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
60	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
60	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
60	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
60	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
60	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
60	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
60	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
63	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
63	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
63	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
63	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
63	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
63	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
63	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
63	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
63	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
64	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
64	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	-0.10	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
64	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	-0.08	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
64	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.05	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
64	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	-0.07	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
64	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	-0.06	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
64	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-0.05	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
64	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	-0.04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
64	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.04	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
64	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
65	1	5111.47	0.0	-0.04	-53.12	0.0	0.0	287.41	0.0	0.0	0.0	-2.880e+04

		-2.880e+04	0.0	0.0	0.0	130.0	0.0	234.29	0.0	0.0	0.0	5111.47
65	2	2.727e+04	0.0	-0.21	-53.12	0.0	0.0	1304.10	0.0	0.0	0.0	0.0-1.388e+05
		-1.388e+05	0.0	0.0	0.0	130.0	0.0	1250.98	0.0	0.0	0.0	0.0 2.727e+04
65	4	4.586e+04	0.0	0.07	-53.12	0.0	0.0	-402.63	0.0	0.0	0.0	0.0 4.586e+04
		-9930.76	0.0	0.0	0.0	130.0	0.0	-455.75	0.0	0.0	0.0	0.0 -9930.76
65	5	3.449e+04	0.0	-0.26	-53.12	0.0	0.0	1635.32	0.0	0.0	0.0	0.0-1.746e+05
		-1.746e+05	0.0	0.0	0.0	130.0	0.0	1582.20	0.0	0.0	0.0	0.0 3.449e+04
65	9	3798.19	0.0	-0.03	-40.86	0.0	0.0	214.95	0.0	0.0	0.0	0.0-2.149e+04
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	174.09	0.0	0.0	0.0	0.0 3798.19
65	10	1.857e+04	0.0	-0.14	-40.86	0.0	0.0	892.74	0.0	0.0	0.0	0.0-9.483e+04
		-9.483e+04	0.0	0.0	0.0	130.0	0.0	851.88	0.0	0.0	0.0	0.0 1.857e+04
65	12	2.829e+04	0.0	0.04	-40.86	0.0	0.0	-245.08	0.0	0.0	0.0	0.0 2.829e+04
		-6229.96	0.0	0.0	0.0	130.0	0.0	-285.94	0.0	0.0	0.0	0.0 -6229.96
65	13	2.339e+04	0.0	-0.18	-40.86	0.0	0.0	1113.55	0.0	0.0	0.0	0.0-1.187e+05
		-1.187e+05	0.0	0.0	0.0	130.0	0.0	1072.69	0.0	0.0	0.0	0.0 2.339e+04
65	17	3798.19	0.0	-0.03	-40.86	0.0	0.0	214.95	0.0	0.0	0.0	0.0-2.149e+04
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	174.09	0.0	0.0	0.0	0.0 3798.19
65	18	6753.24	0.0	-0.05	-40.86	0.0	0.0	350.51	0.0	0.0	0.0	0.0-3.616e+04
		-3.616e+04	0.0	0.0	0.0	130.0	0.0	309.65	0.0	0.0	0.0	0.0 6753.24
65	20	1792.56	0.0	-0.02	-40.86	0.0	0.0	122.94	0.0	0.0	0.0	0.0-1.153e+04
		-1.153e+04	0.0	0.0	0.0	130.0	0.0	82.08	0.0	0.0	0.0	0.0 1792.56
65	21	3798.19	0.0	-0.03	-40.86	0.0	0.0	214.95	0.0	0.0	0.0	0.0-2.149e+04
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	174.09	0.0	0.0	0.0	0.0 3798.19
66	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	0.0 1.149e+04
		0.0	0.0	2.19e-03	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0 0.0
66	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	0.0-1.059e+04
		-1.059e+04	0.0	-6.03e-03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	0.0 -2.29e-05
66	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	0.0 -1.398e+04
		-1.398e+04	0.0	-6.73e-03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	0.0 -1.14e-05
66	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	0.0 7515.31
		0.0	0.0	1.27e-03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0 0.0
66	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	0.0 -7209.40
		-7209.40	0.0	-4.21e-03	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	0.0 -1.53e-05
66	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	0.0 -9466.52
		-9466.52	0.0	-4.67e-03	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	0.0 -7.63e-06
66	17	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0 -1559.66
		-1559.66	0.0	-1.75e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0 0.0
66	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	0.0 -1818.41
		-1818.41	0.0	-1.95e-03	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	0.0 -3.05e-06
66	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	0.0 -3011.66
		-3011.66	0.0	-2.23e-03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0 0.0
66	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	0.0 255.33
		0.0	0.0	-1.15e-03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0 0.0
66	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0 -1559.66
		-1559.66	0.0	-1.75e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0 0.0
67	3	4.859e+04	-3761.32	0.14	-30.47	0.0	0.0	-238.58	58.43	0.0	0.0-1.419e+04	4.859e+04
		1.560e+04	-1.419e+04	-0.04	43.51	130.0	0.0	-269.05	101.94	0.0	0.0 -3761.32	1.560e+04
67	4	-1.289e+04	-4731.08	-0.11	-30.47	0.0	0.0	209.23	54.07	0.0	0.0-1.459e+04	-3.811e+04
		-3.811e+04	-1.459e+04	-0.04	43.51	130.0	0.0	178.76	97.58	0.0	0.0 -4731.08	-1.289e+04
67	6	-4414.61	-7581.64	-0.03	-30.47	0.0	0.0	73.76	106.39	0.0	0.0-2.424e+04	-1.202e+04
		-1.202e+04	-2.424e+04	-0.07	43.51	130.0	0.0	43.29	149.90	0.0	0.0 -7581.64	-4414.61
67	7	5.200e+04	-5294.35	0.15	-30.47	0.0	0.0	-256.56	84.11	0.0	0.0-1.906e+04	5.200e+04
		1.667e+04	-1.906e+04	-0.06	43.51	130.0	0.0	-287.03	127.62	0.0	0.0 -5294.35	1.667e+04
67	11	3.318e+04	-2827.88	0.09	-23.44	0.0	0.0	-161.82	42.91	0.0	0.0-1.058e+04	3.318e+04
		1.062e+04	-1.058e+04	-0.03	33.47	130.0	0.0	-185.26	76.38	0.0	0.0 -2827.88	1.062e+04
67	12	-8370.90	-3474.38	-0.07	-23.44	0.0	0.0	136.71	40.00	0.0	0.0-1.085e+04	-2.462e+04
		-2.462e+04	-1.085e+04	-0.03	33.47	130.0	0.0	113.28	73.47	0.0	0.0 -3474.38	-8370.90
67	14	-2718.77	-5374.76	-0.02	-23.44	0.0	0.0	46.40	74.89	0.0	0.0-1.729e+04	-7227.33
		-7227.33	-1.729e+04	-0.05	33.47	130.0	0.0	22.96	108.36	0.0	0.0 -5374.76	-2718.77
67	15	3.546e+04	-3849.90	0.10	-23.44	0.0	0.0	-173.81	60.03	0.0	0.0-1.383e+04	3.546e+04
		1.134e+04	-1.383e+04	-0.04	33.47	130.0	0.0	-197.25	93.50	0.0	0.0 -3849.90	1.134e+04
67	18	8402.46	-3524.02	0.02	-23.44	0.0	0.0	-33.93	48.46	0.0	0.0-1.200e+04	8402.46
		2467.54	-1.200e+04	-0.03	33.47	130.0	0.0	-57.37	81.94	0.0	0.0 -3524.02	2467.54
67	19	1.263e+04	-3057.75	0.04	-23.44	0.0	0.0	-55.68	41.88	0.0	0.0-1.068e+04	1.263e+04
		3869.64	-1.068e+04	-0.03	33.47	130.0	0.0	-79.11	75.35	0.0	0.0 -3057.75	3869.64
67	20	1114.93	-3187.05	3.88e-03	-23.44	0.0	0.0	4.03	41.29	0.0	0.0-1.073e+04	1070.24
		70.85	-1.073e+04	-0.03	33.47	130.0	0.0	-19.41	74.76	0.0	0.0 -3187.05	70.85
67	21	7492.91	-3115.21	0.02	-23.44	0.0	0.0	-29.14	41.62	0.0	0.0-1.070e+04	7492.91
		2181.29	-1.070e+04	-0.03	33.47	130.0	0.0	-52.58	75.09	0.0	0.0 -3115.21	2181.29
68	2	-2.29e-05	0.0	0.06	-73.79	0.0	1.10e-04	1.51e-04	0.0	0.0	0.0	0.0 -2.29e-05
		-4058.40	0.0	5.17e-03	0.0	110.0	105.38	-73.79	0.0	0.0	0.0	0.0 -4058.40
68	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0 0.0
		0.0	0.0	-2.26e-03	0.0	110.0	54.99	208.99	0.0	0.0	0.0	0.0 1.149e+04
68	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	0.0 -2.29e-05
		-1.059e+04	0.0	7.77e-03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	0.0 -1.059e+04
68	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	0.0 -1.14e-05
		-1.398e+04	0.0	8.49e-03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	0.0 -1.398e+04

68	10	-1.53e-05	0.0	0.04	-51.88	0.0	7.75e-05	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-2853.41	0.0	3.70e-03	0.0	110.0	74.09	-51.88	0.0	0.0	0.0	-2853.41
68	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	7515.31
		0.0	0.0	-1.26e-03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	0.0
68	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	5.43e-03	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
68	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	5.91e-03	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
68	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	2.62e-03	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
68	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	2.93e-03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
68	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	255.33
		0.0	0.0	1.63e-03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	0.0
68	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	2.35e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
69	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
69	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0
69	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
69	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
69	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0
69	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
69	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
69	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
69	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
70	3	8.260e+04	-1768.45	0.23	-30.47	0.0	0.0	-421.54	127.55	0.0	-2.118e+04	8.260e+04
		2.582e+04	-2.118e+04	-0.18	43.51	130.0	0.0	-452.01	171.06	0.0	-1768.45	2.582e+04
70	4	-2.318e+04	-1.079e+04	-0.13	-30.47	0.0	0.0	342.71	103.65	0.0	-2.709e+04	-6.575e+04
		-6.575e+04	-2.709e+04	0.01	43.51	130.0	0.0	312.24	147.17	0.0	-1.079e+04	-2.318e+04
70	6	-9427.59	-1.287e+04	0.01	-30.47	0.0	0.0	109.65	199.26	0.0	-4.160e+04	-2.170e+04
		-2.170e+04	-4.160e+04	-0.12	43.51	130.0	0.0	79.18	242.78	0.0	-1.287e+04	-9427.59
70	7	8.815e+04	-3812.07	0.25	-30.47	0.0	0.0	-453.16	172.70	0.0	-2.909e+04	8.815e+04
		2.726e+04	-2.909e+04	-0.21	43.51	130.0	0.0	-483.62	216.21	0.0	-3812.07	2.726e+04
70	8	-2.175e+04	-1.283e+04	-0.10	-30.47	0.0	0.0	311.10	148.80	0.0	-3.500e+04	-6.021e+04
		-6.021e+04	-3.500e+04	-0.05	43.51	130.0	0.0	280.63	192.32	0.0	-1.283e+04	-2.175e+04
70	11	5.638e+04	-1625.27	0.16	-23.44	0.0	0.0	-287.16	93.79	0.0	-1.599e+04	5.638e+04
		1.753e+04	-1.599e+04	-0.13	33.47	130.0	0.0	-310.60	127.27	0.0	-1625.27	1.753e+04
70	12	-1.514e+04	-7637.66	-0.08	-23.44	0.0	0.0	222.34	77.86	0.0	-1.994e+04	-4.252e+04
		-4.252e+04	-1.994e+04	-0.02	33.47	130.0	0.0	198.90	111.34	0.0	-7637.66	-1.514e+04
70	14	-5972.55	-9026.41	0.01	-23.44	0.0	0.0	66.96	141.61	0.0	-2.961e+04	-1.315e+04
		-1.315e+04	-2.961e+04	-0.09	33.47	130.0	0.0	43.53	175.08	0.0	-9026.41	-5972.55
70	15	6.008e+04	-2987.69	0.18	-23.44	0.0	0.0	-308.24	123.90	0.0	-2.127e+04	6.008e+04
		1.848e+04	-2.127e+04	-0.15	33.47	130.0	0.0	-331.68	157.37	0.0	-2987.69	1.848e+04
70	16	-1.419e+04	-9000.08	-0.06	-23.44	0.0	0.0	201.26	107.97	0.0	-2.521e+04	-3.883e+04
		-3.883e+04	-2.521e+04	-0.04	33.47	130.0	0.0	177.83	141.44	0.0	-9000.08	-1.419e+04
70	18	1.390e+04	-4842.41	0.06	-23.44	0.0	0.0	-69.15	98.75	0.0	-1.986e+04	1.390e+04
		3390.68	-1.986e+04	-0.09	33.47	130.0	0.0	-92.59	132.23	0.0	-4842.41	3390.68
70	19	2.122e+04	-3763.01	0.08	-23.44	0.0	0.0	-106.01	88.13	0.0	-1.740e+04	2.122e+04
		5912.99	-1.740e+04	-0.09	33.47	130.0	0.0	-129.44	121.60	0.0	-3763.01	5912.99
70	20	1436.50	-4965.49	0.03	-23.44	0.0	0.0	-4.11	84.94	0.0	-1.818e+04	1436.50
		-620.77	-1.818e+04	-0.06	33.47	130.0	0.0	-27.54	118.42	0.0	-4965.49	-620.77
70	21	1.243e+04	-4297.45	0.05	-23.44	0.0	0.0	-60.72	86.71	0.0	-1.775e+04	1.243e+04
		3009.10	-1.775e+04	-0.08	33.47	130.0	0.0	-84.15	120.19	0.0	-4297.45	3009.10
71	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.21	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
71	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	-0.13	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
71	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	-0.06	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
71	8	1.052e+04	0.0	1.16	191.35	0.0	-80.19	-191.35	0.0	0.0	0.0	1.052e+04
		-1.14e-05	0.0	-0.25	0.0	110.0	2.76e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
71	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.15	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
71	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.10	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-7209.40
71	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.05	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-9466.52
71	16	6868.44	0.0	0.77	124.88	0.0	-57.30	-124.88	0.0	0.0	0.0	6868.44

		-7.63e-06	0.0	-0.17	0.0	110.0	1.80e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
71	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-0.09	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
71	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	-0.07	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
71	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.09	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
71	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-0.08	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
72	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
72	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
72	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
72	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
72	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
72	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
72	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
72	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
72	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
73	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-2.26e-03	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
73	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	7.77e-03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
73	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	8.49e-03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
73	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-1.26e-03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
73	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	5.43e-03	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
73	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	5.91e-03	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
73	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	2.62e-03	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
73	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	2.93e-03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
73	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	1.63e-03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
73	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	2.35e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
74	4	6.270e+04	2.508e+04	-0.14	-30.47	0.0	0.0	596.75	207.56	0.0	-4731.08	-1.289e+04
		-1.289e+04	-4731.08	-0.06	43.51	130.0	0.0	566.28	251.07	0.0	2.508e+04	6.270e+04
74	5	1.268e+04	4.306e+04	0.14	-30.47	0.0	0.0	-610.58	363.29	0.0	-6999.79	1.268e+04
		-6.868e+04	-6999.79	-0.08	43.51	130.0	0.0	-641.04	406.80	0.0	4.306e+04	-6.868e+04
74	6	1.866e+04	4.213e+04	-0.04	-30.47	0.0	0.0	192.71	360.67	0.0	-7581.64	-4414.61
		-4414.61	-7581.64	-0.09	43.51	130.0	0.0	162.24	404.18	0.0	4.213e+04	1.866e+04
74	7	1.667e+04	3.497e+04	0.18	-30.47	0.0	0.0	-795.32	287.99	0.0	-5294.35	1.667e+04
		-8.870e+04	-5294.35	-0.07	43.51	130.0	0.0	-825.79	331.51	0.0	3.497e+04	-8.870e+04
74	12	4.036e+04	1.878e+04	-0.09	-23.44	0.0	0.0	386.56	154.47	0.0	-3474.38	-8370.90
		-8370.90	-3474.38	-0.04	33.47	130.0	0.0	363.13	187.94	0.0	1.878e+04	4.036e+04
74	13	8677.59	3.077e+04	0.10	-23.44	0.0	0.0	-418.32	258.29	0.0	-4986.86	8677.59
		-4.723e+04	-4986.86	-0.06	33.47	130.0	0.0	-441.76	291.76	0.0	3.077e+04	-4.723e+04
74	14	1.099e+04	3.015e+04	-0.03	-23.44	0.0	0.0	117.20	256.54	0.0	-5374.76	-2718.77
		-2718.77	-5374.76	-0.06	33.47	130.0	0.0	93.77	290.01	0.0	3.015e+04	1.099e+04
74	15	1.134e+04	2.538e+04	0.13	-23.44	0.0	0.0	-541.49	208.09	0.0	-3849.90	1.134e+04
		-6.058e+04	-3849.90	-0.05	33.47	130.0	0.0	-564.92	241.56	0.0	2.538e+04	-6.058e+04
74	18	2467.54	2.158e+04	0.03	-23.44	0.0	0.0	-123.50	176.37	0.0	-3524.02	2467.54
		-1.511e+04	-3524.02	-0.04	33.47	130.0	0.0	-146.93	209.84	0.0	2.158e+04	-1.511e+04
74	19	3869.64	1.944e+04	0.05	-23.44	0.0	0.0	-188.63	156.34	0.0	-3057.75	3869.64
		-2.218e+04	-3057.75	-0.04	33.47	130.0	0.0	-212.07	189.82	0.0	1.944e+04	-2.218e+04
74	20	70.85	1.924e+04	4.07e-03	-23.44	0.0	0.0	-10.12	155.76	0.0	-3187.05	70.85
		-2768.31	-3187.05	-0.04	33.47	130.0	0.0	-33.56	189.23	0.0	1.924e+04	-2768.31
74	21	2181.29	1.935e+04	0.03	-23.44	0.0	0.0	-109.29	156.09	0.0	-3115.21	2181.29
		-1.355e+04	-3115.21	-0.04	33.47	130.0	0.0	-132.73	189.56	0.0	1.935e+04	-1.355e+04
75	1	1.466e+04	0.0	-0.03	-53.12	0.0	0.0	100.02	0.0	0.0	0.0	5111.47
		5111.47	0.0	0.0	0.0	130.0	0.0	46.90	0.0	0.0	0.0	1.466e+04
75	2	7.419e+04	0.0	-0.15	-53.12	0.0	0.0	387.41	0.0	0.0	0.0	2.727e+04
		2.727e+04	0.0	0.0	0.0	130.0	0.0	334.29	0.0	0.0	0.0	7.419e+04
75	4	-9930.76	0.0	0.05	-53.12	0.0	0.0	-95.02	0.0	0.0	0.0	-9930.76
		-2.574e+04	0.0	0.0	0.0	130.0	0.0	-148.14	0.0	0.0	0.0	-2.574e+04

75	5	9.358e+04	0.0	-0.19	-53.12	0.0	0.0	481.03	0.0	0.0	0.0	3.449e+04
		3.449e+04	0.0	0.0	0.0	130.0	0.0	427.91	0.0	0.0	0.0	9.358e+04
75	9	1.092e+04	0.0	-0.02	-40.86	0.0	0.0	75.21	0.0	0.0	0.0	3798.19
		3798.19	0.0	0.0	0.0	130.0	0.0	34.35	0.0	0.0	0.0	1.092e+04
75	10	5.060e+04	0.0	-0.11	-40.86	0.0	0.0	266.80	0.0	0.0	0.0	1.857e+04
		1.857e+04	0.0	0.0	0.0	130.0	0.0	225.94	0.0	0.0	0.0	5.060e+04
75	12	-6229.96	0.0	0.03	-40.86	0.0	0.0	-54.82	0.0	0.0	0.0	-6229.96
		-1.601e+04	0.0	0.0	0.0	130.0	0.0	-95.68	0.0	0.0	0.0	-1.601e+04
75	13	6.353e+04	0.0	-0.13	-40.86	0.0	0.0	329.21	0.0	0.0	0.0	2.339e+04
		2.339e+04	0.0	0.0	0.0	130.0	0.0	288.35	0.0	0.0	0.0	6.353e+04
75	17	1.092e+04	0.0	-0.02	-40.86	0.0	0.0	75.21	0.0	0.0	0.0	3798.19
		3798.19	0.0	0.0	0.0	130.0	0.0	34.35	0.0	0.0	0.0	1.092e+04
75	18	1.886e+04	0.0	-0.04	-40.86	0.0	0.0	113.53	0.0	0.0	0.0	6753.24
		6753.24	0.0	0.0	0.0	130.0	0.0	72.67	0.0	0.0	0.0	1.886e+04
75	20	5532.90	0.0	-0.01	-40.86	0.0	0.0	49.20	0.0	0.0	0.0	1792.56
		1792.56	0.0	0.0	0.0	130.0	0.0	8.34	0.0	0.0	0.0	5532.90
75	21	1.092e+04	0.0	-0.02	-40.86	0.0	0.0	75.21	0.0	0.0	0.0	3798.19
		3798.19	0.0	0.0	0.0	130.0	0.0	34.35	0.0	0.0	0.0	1.092e+04
76	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
76	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
76	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
76	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
76	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
76	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
76	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
76	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
76	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
77	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	0.07	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
77	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
77	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.11	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
77	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.09	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
77	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	0.08	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
77	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	0.05	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
77	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.04	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
77	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.08	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
77	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.07	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
77	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
77	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.05	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
77	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.05	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
77	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.05	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
77	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.05	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
78	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.02	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
78	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.09	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-1.059e+04
78	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.09	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.398e+04
78	9	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1.14e-05
		-1559.66	0.0	-0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	-1559.66
78	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.02	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
78	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	-0.06	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
78	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52

		-9466.52	0.0	-0.06	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
78	17	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
78	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-0.04	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
78	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	-0.04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
78	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
78	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
79	4	6.977e+04	2.547e+04	-0.23	-30.47	0.0	0.0	730.23	257.15	0.0	-1.079e+04	-2.318e+04
		-2.318e+04	-1.079e+04	-0.07	43.51	130.0	0.0	699.77	300.66	0.0	2.547e+04	6.977e+04
79	5	1.997e+04	5.619e+04	0.30	-30.47	0.0	0.0	-764.55	467.88	0.0	-7458.99	1.997e+04
		-8.140e+04	-7458.99	-0.23	43.51	130.0	0.0	-795.02	511.39	0.0	5.619e+04	-8.140e+04
79	6	1.831e+04	4.892e+04	-0.05	-30.47	0.0	0.0	228.60	453.54	0.0	-1.287e+04	-9427.59
		-9427.59	-1.287e+04	-0.17	43.51	130.0	0.0	198.13	497.05	0.0	4.892e+04	1.831e+04
79	7	2.726e+04	4.797e+04	0.37	-30.47	0.0	0.0	-991.92	376.59	0.0	-3812.07	2.726e+04
		-1.037e+05	-3812.07	-0.21	43.51	130.0	0.0	-1022.39	420.10	0.0	4.797e+04	-1.037e+05
79	12	4.472e+04	1.954e+04	-0.15	-23.44	0.0	0.0	472.19	192.33	0.0	-7637.66	-1.514e+04
		-1.514e+04	-7637.66	-0.06	33.47	130.0	0.0	448.75	225.81	0.0	1.954e+04	4.472e+04
79	13	1.363e+04	4.002e+04	0.20	-23.44	0.0	0.0	-524.34	332.82	0.0	-5418.97	1.363e+04
		-5.606e+04	-5418.97	-0.16	33.47	130.0	0.0	-547.77	366.29	0.0	4.002e+04	-5.606e+04
79	14	1.041e+04	3.517e+04	-0.02	-23.44	0.0	0.0	137.77	323.26	0.0	-9026.41	-5972.55
		-5972.55	-9026.41	-0.12	33.47	130.0	0.0	114.33	356.73	0.0	3.517e+04	1.041e+04
79	15	1.848e+04	3.454e+04	0.25	-23.44	0.0	0.0	-675.91	271.96	0.0	-2987.69	1.848e+04
		-7.091e+04	-2987.69	-0.15	33.47	130.0	0.0	-699.35	305.43	0.0	3.454e+04	-7.091e+04
79	18	3390.68	2.680e+04	0.07	-23.44	0.0	0.0	-158.71	226.66	0.0	-4842.41	3390.68
		-1.876e+04	-4842.41	-0.10	33.47	130.0	0.0	-182.15	260.13	0.0	2.680e+04	-1.876e+04
79	19	5912.99	2.475e+04	0.10	-23.44	0.0	0.0	-238.96	202.60	0.0	-3763.01	5912.99
		-2.668e+04	-3763.01	-0.10	33.47	130.0	0.0	-262.40	236.07	0.0	2.475e+04	-2.668e+04
79	20	-620.77	2.313e+04	0.02	-23.44	0.0	0.0	-18.26	199.41	0.0	-4965.49	-620.77
		-4517.81	-4965.49	-0.09	33.47	130.0	0.0	-41.70	232.89	0.0	2.313e+04	-4517.81
79	21	3009.10	2.403e+04	0.06	-23.44	0.0	0.0	-140.87	201.18	0.0	-4297.45	3009.10
		-1.683e+04	-4297.45	-0.09	33.47	130.0	0.0	-164.31	234.66	0.0	2.403e+04	-1.683e+04
80	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
80	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
80	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
80	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
80	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
80	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
80	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
80	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
80	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
81	1	1.466e+04	0.0	0.05	-53.12	0.0	0.0	-87.36	0.0	0.0	0.0	1.466e+04
		-147.64	0.0	0.0	0.0	130.0	0.0	-140.48	0.0	0.0	0.0	-147.64
81	2	7.419e+04	0.0	0.24	-53.12	0.0	0.0	-529.27	0.0	0.0	0.0	7.419e+04
		1927.58	0.0	0.0	0.0	130.0	0.0	-582.39	0.0	0.0	0.0	1927.58
81	4	-1550.32	0.0	-0.08	-53.12	0.0	0.0	212.60	0.0	0.0	0.0	-2.574e+04
		-2.574e+04	0.0	0.0	0.0	130.0	0.0	159.48	0.0	0.0	0.0	-1550.32
81	5	9.358e+04	0.0	0.30	-53.12	0.0	0.0	-673.25	0.0	0.0	0.0	9.358e+04
		2600.87	0.0	0.0	0.0	130.0	0.0	-726.37	0.0	0.0	0.0	2600.87
81	9	1.092e+04	0.0	0.04	-40.86	0.0	0.0	-64.53	0.0	0.0	0.0	1.092e+04
		-126.09	0.0	0.0	0.0	130.0	0.0	-105.39	0.0	0.0	0.0	-126.09
81	10	5.060e+04	0.0	0.16	-40.86	0.0	0.0	-359.14	0.0	0.0	0.0	5.060e+04
		1257.39	0.0	0.0	0.0	130.0	0.0	-400.00	0.0	0.0	0.0	1257.39
81	12	-1061.21	0.0	-0.05	-40.86	0.0	0.0	135.44	0.0	0.0	0.0	-1.601e+04
		-1.601e+04	0.0	0.0	0.0	130.0	0.0	94.58	0.0	0.0	0.0	-1061.21
81	13	6.353e+04	0.0	0.21	-40.86	0.0	0.0	-455.13	0.0	0.0	0.0	6.353e+04
		1706.25	0.0	0.0	0.0	130.0	0.0	-495.99	0.0	0.0	0.0	1706.25
81	17	1.092e+04	0.0	0.04	-40.86	0.0	0.0	-64.53	0.0	0.0	0.0	1.092e+04
		-126.09	0.0	0.0	0.0	130.0	0.0	-105.39	0.0	0.0	0.0	-126.09
81	18	1.886e+04	0.0	0.06	-40.86	0.0	0.0	-123.45	0.0	0.0	0.0	1.886e+04
		150.61	0.0	0.0	0.0	130.0	0.0	-164.32	0.0	0.0	0.0	150.61
81	20	5532.90	0.0	0.02	-40.86	0.0	0.0	-24.54	0.0	0.0	0.0	5532.90
		-313.11	0.0	0.0	0.0	130.0	0.0	-65.40	0.0	0.0	0.0	-313.11
81	21	1.092e+04	0.0	0.04	-40.86	0.0	0.0	-64.53	0.0	0.0	0.0	1.092e+04
		-126.09	0.0	0.0	0.0	130.0	0.0	-105.39	0.0	0.0	0.0	-126.09

82	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
82	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-0.1059e+04
		-1.059e+04	0.0	0.11	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
82	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.09	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
82	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.04	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
82	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.08	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
82	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.07	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
82	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.05	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
82	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.05	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
82	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.05	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
82	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.05	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
83	4	6.270e+04	2.508e+04	0.14	-30.47	0.0	0.0	-566.98	-249.38	0.0	2.508e+04	6.270e+04
		-1.298e+04	-4511.03	0.05	43.51	130.0	0.0	-597.45	-205.87	0.0	-4511.03	-1.298e+04
83	5	1.331e+04	4.306e+04	-0.15	-30.47	0.0	0.0	645.86	-414.00	0.0	4.306e+04	-6.868e+04
		-6.868e+04	-7936.38	0.10	43.51	130.0	0.0	615.39	-370.49	0.0	-7936.38	1.331e+04
83	7	1.733e+04	3.497e+04	-0.19	-30.47	0.0	0.0	830.82	-339.25	0.0	3.497e+04	-8.870e+04
		-8.870e+04	-6300.51	0.08	43.51	130.0	0.0	800.36	-295.73	0.0	-6300.51	1.733e+04
83	12	4.036e+04	1.878e+04	0.09	-23.44	0.0	0.0	-363.43	-187.05	0.0	1.878e+04	4.036e+04
		-8410.23	-3358.79	0.04	33.47	130.0	0.0	-386.86	-153.58	0.0	-3358.79	-8410.23
83	13	9116.60	3.077e+04	-0.10	-23.44	0.0	0.0	445.13	-296.80	0.0	3.077e+04	-4.723e+04
		-4.723e+04	-5642.35	0.07	33.47	130.0	0.0	421.70	-263.33	0.0	-5642.35	9116.60
83	15	1.180e+04	2.538e+04	-0.13	-23.44	0.0	0.0	568.44	-246.96	0.0	2.538e+04	-6.058e+04
		-6.058e+04	-4551.77	0.06	33.47	130.0	0.0	545.01	-213.49	0.0	-4551.77	1.180e+04
83	18	2695.45	2.158e+04	-0.03	-23.44	0.0	0.0	148.69	-212.35	0.0	2.158e+04	-1.511e+04
		-1.511e+04	-3849.51	0.05	33.47	130.0	0.0	125.25	-178.87	0.0	-3849.51	2695.45
83	19	4113.01	1.944e+04	-0.05	-23.44	0.0	0.0	213.94	-192.56	0.0	1.944e+04	-2.218e+04
		-2.218e+04	-3414.82	0.04	33.47	130.0	0.0	190.50	-159.09	0.0	-3414.82	4113.01
83	20	226.49	1.924e+04	-7.00e-03	-23.44	0.0	0.0	34.76	-190.85	0.0	1.924e+04	-2768.37
		-2768.37	-3397.43	0.04	33.47	130.0	0.0	11.32	-157.38	0.0	-3397.43	226.49
83	21	2385.66	1.935e+04	-0.03	-23.44	0.0	0.0	134.30	-191.80	0.0	1.935e+04	-1.355e+04
		-1.355e+04	-3407.09	0.04	33.47	130.0	0.0	110.86	-158.33	0.0	-3407.09	2385.66
84	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-2.19e-03	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
84	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	6.03e-03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
84	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	6.73e-03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
84	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	7515.31
		0.0	0.0	-1.27e-03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	0.0
84	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	4.21e-03	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
84	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	4.67e-03	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
84	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	1.95e-03	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
84	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	2.23e-03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
84	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	1.15e-03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
84	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	1.75e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
85	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
85	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0
85	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
85	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
85	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0
85	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
85	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
85	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
85	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
86	4	-1.323e+04	-3829.88	0.11	-30.47	0.0	0.0	-177.59	-101.12	0.0	-3829.88	-1.323e+04
		-3.829e+04	-1.415e+04	0.04	43.51	130.0	0.0	-208.06	-57.61	0.0	-1.415e+04	-3.829e+04
86	5	4.125e+04	-1.075e+04	-0.11	-30.47	0.0	0.0	215.90	-138.06	0.0	-1.075e+04	4.125e+04
		1.517e+04	-2.587e+04	0.07	43.51	130.0	0.0	185.44	-94.55	0.0	-2.587e+04	1.517e+04
86	7	5.331e+04	-9332.06	-0.15	-30.47	0.0	0.0	277.17	-112.04	0.0	-9332.06	5.331e+04
		1.926e+04	-2.107e+04	0.06	43.51	130.0	0.0	246.70	-68.53	0.0	-2.107e+04	1.926e+04
86	12	-8507.09	-2997.86	0.07	-23.44	0.0	0.0	-112.83	-75.36	0.0	-2997.86	-8507.09
		-2.470e+04	-1.062e+04	0.03	33.47	130.0	0.0	-136.27	-41.89	0.0	-1.062e+04	-2.470e+04
86	13	2.833e+04	-7612.96	-0.08	-23.44	0.0	0.0	149.50	-99.99	0.0	-7612.96	2.833e+04
		1.042e+04	-1.844e+04	0.05	33.47	130.0	0.0	126.06	-66.51	0.0	-1.844e+04	1.042e+04
86	15	3.637e+04	-6665.98	-0.10	-23.44	0.0	0.0	190.34	-82.64	0.0	-6665.98	3.637e+04
		1.315e+04	-1.523e+04	0.04	33.47	130.0	0.0	166.90	-49.16	0.0	-1.523e+04	1.315e+04
86	18	8858.27	-4824.51	-0.02	-23.44	0.0	0.0	53.87	-76.94	0.0	-4824.51	8858.27
		3378.15	-1.265e+04	0.03	33.47	130.0	0.0	30.44	-43.47	0.0	-1.265e+04	3378.15
86	19	1.312e+04	-4486.79	-0.04	-23.44	0.0	0.0	75.40	-69.85	0.0	-4486.79	1.312e+04
		4838.67	-1.139e+04	0.03	33.47	130.0	0.0	51.97	-36.38	0.0	-1.139e+04	4838.67
86	20	1496.03	-4024.71	-3.81e-03	-23.44	0.0	0.0	16.99	-71.56	0.0	-4024.71	1496.03
		696.88	-1.115e+04	0.03	33.47	130.0	0.0	-6.45	-38.09	0.0	-1.115e+04	696.88
86	21	7901.66	-4281.42	-0.02	-23.44	0.0	0.0	49.44	-70.61	0.0	-4281.42	7901.66
		2997.88	-1.128e+04	0.03	33.47	130.0	0.0	26.00	-37.14	0.0	-1.128e+04	2997.88
87	3	8.260e+04	-2.063e+04	0.28	-30.47	0.0	0.0	-51.47	-17.56	0.0	-2.063e+04	8.260e+04
		7.393e+04	-2.164e+04	0.05	43.51	130.0	0.0	-81.94	25.95	0.0	-2.164e+04	7.393e+04
87	4	-5.795e+04	-2.344e+04	-0.28	-30.47	0.0	0.0	75.28	6.33	0.0	-2.344e+04	-5.795e+04
		-6.575e+04	-2.709e+04	-0.16	43.51	130.0	0.0	44.81	49.84	0.0	-2.709e+04	-6.575e+04
87	6	-1.851e+04	-3.728e+04	-0.13	-30.47	0.0	0.0	39.77	11.50	0.0	-3.728e+04	-1.851e+04
		-2.170e+04	-4.160e+04	-0.15	43.51	130.0	0.0	9.31	55.01	0.0	-4.160e+04	-2.170e+04
87	7	8.815e+04	-2.786e+04	0.29	-30.47	0.0	0.0	-55.14	-12.32	0.0	-2.786e+04	8.815e+04
		7.900e+04	-2.932e+04	0.04	43.51	130.0	0.0	-85.61	31.19	0.0	-2.932e+04	7.900e+04
87	11	5.638e+04	-1.548e+04	0.19	-23.44	0.0	0.0	-33.55	-12.80	0.0	-1.548e+04	5.638e+04
		5.050e+04	-1.631e+04	0.03	33.47	130.0	0.0	-56.99	20.68	0.0	-1.631e+04	5.050e+04
87	12	-3.742e+04	-1.735e+04	-0.18	-23.44	0.0	0.0	50.95	3.13	0.0	-1.735e+04	-3.742e+04
		-4.252e+04	-1.994e+04	-0.11	33.47	130.0	0.0	27.51	36.60	0.0	-1.994e+04	-4.252e+04
87	14	-1.113e+04	-2.658e+04	-0.09	-23.44	0.0	0.0	27.28	6.58	0.0	-2.658e+04	-1.113e+04
		-1.315e+04	-2.961e+04	-0.10	33.47	130.0	0.0	3.84	40.05	0.0	-2.961e+04	-1.315e+04
87	15	6.008e+04	-2.030e+04	0.20	-23.44	0.0	0.0	-36.00	-9.30	0.0	-2.030e+04	6.008e+04
		5.387e+04	-2.144e+04	0.03	33.47	130.0	0.0	-59.43	24.17	0.0	-2.144e+04	5.387e+04
87	18	1.393e+04	-1.824e+04	0.03	-23.44	0.0	0.0	3.02	-4.32	0.0	-1.824e+04	1.393e+04
		1.277e+04	-1.989e+04	-0.04	33.47	130.0	0.0	-20.41	29.15	0.0	-1.989e+04	1.277e+04
87	19	2.122e+04	-1.615e+04	0.06	-23.44	0.0	0.0	-3.51	-7.13	0.0	-1.615e+04	2.122e+04
		1.924e+04	-1.749e+04	-0.02	33.47	130.0	0.0	-26.94	26.34	0.0	-1.749e+04	1.924e+04
87	20	1933.74	-1.652e+04	-0.02	-23.44	0.0	0.0	13.39	-3.95	0.0	-1.652e+04	1933.74
		1436.50	-1.821e+04	-0.05	33.47	130.0	0.0	-10.05	29.52	0.0	-1.821e+04	1436.50
87	21	1.247e+04	-1.631e+04	0.02	-23.44	0.0	0.0	4.00	-5.72	0.0	-1.631e+04	1.247e+04
		1.142e+04	-1.781e+04	-0.03	33.47	130.0	0.0	-19.43	27.75	0.0	-1.781e+04	1.142e+04
88	3	0.0	0.0	-0.64	-219.69	0.0	3.20e-04	4.43e-05	0.0	0.0	0.0	0.0
		-1.208e+04	0.0	-0.09	0.0	110.0	30.98	-219.69	0.0	0.0	-1.208e+04	0.0
88	4	1.242e+04	0.0	0.84	225.81	0.0	-3.28e-04	4.43e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.29	0.0	110.0	30.98	225.81	0.0	0.0	0.0	1.242e+04
88	5	-1.14e-05	0.0	-0.37	-158.13	0.0	2.32e-04	8.08e-05	0.0	0.0	0.0	-1.14e-05
		-8697.29	0.0	-0.24	0.0	110.0	56.17	-158.13	0.0	0.0	0.0	-8697.29
88	7	-5.72e-06	0.0	-0.64	-228.51	0.0	3.33e-04	6.25e-05	0.0	0.0	0.0	-5.72e-06
		-1.257e+04	0.0	-0.15	0.0	110.0	43.58	-228.51	0.0	0.0	0.0	-1.257e+04
88	8	1.193e+04	0.0	0.85	216.99	0.0	-3.14e-04	6.25e-05	0.0	0.0	0.0	1.193e+04
		-5.72e-06	0.0	-0.34	0.0	110.0	43.58	216.99	0.0	0.0	0.0	-5.72e-06
88	11	0.0	0.0	-0.43	-148.05	0.0	2.15e-04	3.28e-05	0.0	0.0	0.0	0.0
		-8142.98	0.0	-0.08	0.0	110.0	22.93	-148.05	0.0	0.0	0.0	-8142.98
88	12	8191.99	0.0	0.56	148.95	0.0	-2.16e-04	3.28e-05	0.0	0.0	0.0	8191.99
		0.0	0.0	-0.20	0.0	110.0	22.93	148.95	0.0	0.0	0.0	0.0
88	13	-7.63e-06	0.0	-0.24	-107.02	0.0	1.57e-04	5.71e-05	0.0	0.0	0.0	-7.63e-06
		-5885.85	0.0	-0.17	0.0	110.0	39.73	-107.02	0.0	0.0	0.0	-5885.85
88	15	-3.81e-06	0.0	-0.42	-153.94	0.0	2.25e-04	4.49e-05	0.0	0.0	0.0	-3.81e-06
		-8466.41	0.0	-0.11	0.0	110.0	31.33	-153.94	0.0	0.0	0.0	-8466.41
88	16	7868.55	0.0	0.57	143.06	0.0	-2.07e-04	4.49e-05	0.0	0.0	0.0	7868.55
		-3.81e-06	0.0	-0.24	0.0	110.0	31.33	143.06	0.0	0.0	0.0	-3.81e-06
88	18	-1.53e-06	0.0	0.01	-18.41	0.0	2.70e-05	3.76e-05	0.0	0.0	0.0	-1.53e-06
		-1012.37	0.0	-0.15	0.0	110.0	26.29	-18.41	0.0	0.0	0.0	-1012.37
88	19	0.0	0.0	-0.08	-42.45	0.0	6.18e-05	3.28e-05	0.0	0.0	0.0	0.0
		-2334.99	0.0	-0.12	0.0	110.0	22.93	-42.45	0.0	0.0	0.0	-2334.99
88	20	932.00	0.0	0.12	16.95	0.0	-2.46e-05	3.28e-05	0.0	0.0	0.0	932.00
		0.0	0.0	-0.15	0.0	110.0	22.93	16.95	0.0	0.0	0.0	0.0
88	21	0.0	0.0	0.01	-16.05	0.0	2.34e-05	3.28e-05	0.0	0.0	0.0	0.0
		-882.99	0.0	-0.13	0.0	110.0	22.93	-16.05	0.0	0.0	0.0	-882.99
89	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-2.19e-03	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
89	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	6.03e-03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-1.059e+04

89	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	6.73e-03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	0.0	-1.14e-05
89	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	0.0	7515.31
		0.0	0.0	-1.27e-03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0	0.0
89	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	4.21e-03	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	0.0	-1.53e-05
89	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	4.67e-03	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	0.0	-7.63e-06
89	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	1.95e-03	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	0.0	-3.05e-06
89	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	2.23e-03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0	0.0
89	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	0.0	255.33
		0.0	0.0	1.15e-03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0	0.0
89	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	1.75e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0	0.0
90	4	-1.298e+04	-4511.03	0.10	-30.47	0.0	0.0	-179.46	-95.88	0.0	-4511.03	-1.298e+04	
		-3.829e+04	-1.415e+04	0.04	43.51	130.0	0.0	-209.93	-52.37	0.0	-1.415e+04	-3.829e+04	
90	5	4.125e+04	-7936.38	-0.12	-30.47	0.0	0.0	230.21	-159.73	0.0	-7936.38	4.125e+04	
		1.331e+04	-2.587e+04	0.08	43.51	130.0	0.0	199.74	-116.21	0.0	-2.587e+04	1.331e+04	
90	7	5.331e+04	-6300.51	-0.15	-30.47	0.0	0.0	292.06	-135.36	0.0	-6300.51	5.331e+04	
		1.733e+04	-2.107e+04	0.07	43.51	130.0	0.0	261.59	-91.85	0.0	-2.107e+04	1.733e+04	
90	12	-8410.23	-3358.79	0.07	-23.44	0.0	0.0	-113.58	-72.58	0.0	-3358.79	-8410.23	
		-2.470e+04	-1.062e+04	0.03	33.47	130.0	0.0	-137.01	-39.11	0.0	-1.062e+04	-2.470e+04	
90	13	2.833e+04	-5642.35	-0.08	-23.44	0.0	0.0	159.54	-115.14	0.0	-5642.35	2.833e+04	
		9116.60	-1.844e+04	0.06	33.47	130.0	0.0	136.10	-81.67	0.0	-1.844e+04	9116.60	
90	15	3.637e+04	-4551.77	-0.10	-23.44	0.0	0.0	200.77	-98.90	0.0	-4551.77	3.637e+04	
		1.180e+04	-1.523e+04	0.05	33.47	130.0	0.0	177.33	-65.43	0.0	-1.523e+04	1.180e+04	
90	18	8858.27	-3849.51	-0.03	-23.44	0.0	0.0	59.12	-84.44	0.0	-3849.51	8858.27	
		2695.45	-1.265e+04	0.04	33.47	130.0	0.0	35.69	-50.97	0.0	-1.265e+04	2695.45	
90	19	1.312e+04	-3414.82	-0.04	-23.44	0.0	0.0	80.99	-78.09	0.0	-3414.82	1.312e+04	
		4113.01	-1.139e+04	0.04	33.47	130.0	0.0	57.55	-44.62	0.0	-1.139e+04	4113.01	
90	20	1403.81	-3397.43	-5.76e-03	-23.44	0.0	0.0	20.60	-76.38	0.0	-3397.43	1403.81	
		226.49	-1.115e+04	0.03	33.47	130.0	0.0	-2.83	-42.91	0.0	-1.115e+04	226.49	
90	21	7901.66	-3407.09	-0.02	-23.44	0.0	0.0	54.15	-77.33	0.0	-3407.09	7901.66	
		2385.66	-1.128e+04	0.03	33.47	130.0	0.0	30.71	-43.86	0.0	-1.128e+04	2385.66	
91	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	-0.07	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04	
91	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	-0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	0.0	1.149e+04
91	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.11	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04	
91	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.09	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04	
91	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	0.0	1.052e+04
		-1.14e-05	0.0	-0.08	0.0	110.0	80.19	191.35	0.0	0.0	0.0	0.0	-1.14e-05
91	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0	0.0
		-8819.65	0.0	-0.05	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65	
91	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.04	0.0	110.0	40.50	136.64	0.0	0.0	0.0	0.0	0.0
91	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.08	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	0.0	-7209.40
91	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.06	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	0.0	-9466.52
91	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	0.0	6868.44
		-7.63e-06	0.0	-0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	0.0	-7.63e-06
91	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.05	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	0.0	-1818.41
91	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.05	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	0.0	-3011.66
91	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0	255.33
		0.0	0.0	-0.05	0.0	110.0	40.50	4.64	0.0	0.0	0.0	0.0	0.0
91	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.05	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	0.0	-1559.66
92	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0	0.0
92	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0	0.0
92	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21

		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
92	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
92	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
93	1	-147.64	0.0	0.03	-53.12	0.0	0.0	-274.74	0.0	0.0	0.0	-147.64
		-3.932e+04	0.0	0.0	0.0	130.0	0.0	-327.86	0.0	0.0	0.0	0.0-3.932e+04
93	2	1927.58	0.0	0.16	-53.12	0.0	0.0	-1445.95	0.0	0.0	0.0	1927.58
		-1.895e+05	0.0	0.0	0.0	130.0	0.0	-1499.07	0.0	0.0	0.0	0.0-1.895e+05
93	4	6.263e+04	0.0	-0.05	-53.12	0.0	0.0	520.22	0.0	0.0	0.0	-1550.32
		-1550.32	0.0	0.0	0.0	130.0	0.0	467.10	0.0	0.0	0.0	0.0 6.263e+04
93	5	2600.87	0.0	0.20	-53.12	0.0	0.0	-1827.53	0.0	0.0	0.0	2600.87
		-2.384e+05	0.0	0.0	0.0	130.0	0.0	-1880.65	0.0	0.0	0.0	0.0-2.384e+05
93	9	-126.09	0.0	0.02	-40.86	0.0	0.0	-204.27	0.0	0.0	0.0	-126.09
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	-245.14	0.0	0.0	0.0	0.0-2.934e+04
93	10	1257.39	0.0	0.11	-40.86	0.0	0.0	-985.08	0.0	0.0	0.0	1257.39
		-1.295e+05	0.0	0.0	0.0	130.0	0.0	-1025.94	0.0	0.0	0.0	0.0-1.295e+05
93	12	3.862e+04	0.0	-0.03	-40.86	0.0	0.0	325.70	0.0	0.0	0.0	-1061.21
		-1061.21	0.0	0.0	0.0	130.0	0.0	284.84	0.0	0.0	0.0	0.0 3.862e+04
93	13	1706.25	0.0	0.14	-40.86	0.0	0.0	-1239.47	0.0	0.0	0.0	1706.25
		-1.621e+05	0.0	0.0	0.0	130.0	0.0	-1280.33	0.0	0.0	0.0	0.0-1.621e+05
93	17	-126.09	0.0	0.02	-40.86	0.0	0.0	-204.27	0.0	0.0	0.0	-126.09
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	-245.14	0.0	0.0	0.0	0.0-2.934e+04
93	18	150.61	0.0	0.04	-40.86	0.0	0.0	-360.44	0.0	0.0	0.0	150.61
		-4.936e+04	0.0	0.0	0.0	130.0	0.0	-401.30	0.0	0.0	0.0	0.0-4.936e+04
93	20	-313.11	0.0	0.01	-40.86	0.0	0.0	-98.28	0.0	0.0	0.0	-313.11
		-1.575e+04	0.0	0.0	0.0	130.0	0.0	-139.14	0.0	0.0	0.0	0.0-1.575e+04
93	21	-126.09	0.0	0.02	-40.86	0.0	0.0	-204.27	0.0	0.0	0.0	-126.09
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	-245.14	0.0	0.0	0.0	0.0-2.934e+04
94	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
94	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
94	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0-3.028e+04
94	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
94	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
94	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0-2.045e+04
94	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
94	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
94	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
95	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.02	0.0	110.0	0.0	54.99	208.99	0.0	0.0	0.0 1.149e+04
95	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.09	0.0	110.0	0.0	105.38	-192.59	0.0	0.0	0.0-1.059e+04
95	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.09	0.0	110.0	0.0	80.19	-254.15	0.0	0.0	0.0-1.398e+04
95	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	0.0 1.052e+04
		-1.14e-05	0.0	-0.03	0.0	110.0	0.0	80.19	191.35	0.0	0.0	0.0 1.052e+04
95	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.02	0.0	110.0	0.0	40.50	136.64	0.0	0.0	0.0 7515.31
95	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.06	0.0	110.0	0.0	74.09	-131.08	0.0	0.0	-7209.40
95	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.06	0.0	110.0	0.0	57.30	-172.12	0.0	0.0	-9466.52
95	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	-0.03	0.0	110.0	0.0	57.30	124.88	0.0	0.0	0.0 6868.44
95	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.04	0.0	110.0	0.0	47.22	-33.06	0.0	0.0	-1818.41
95	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.04	0.0	110.0	0.0	40.50	-54.76	0.0	0.0	-3011.66
95	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.03	0.0	110.0	0.0	40.50	4.64	0.0	0.0	0.0 255.33
95	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.04	0.0	110.0	0.0	40.50	-28.36	0.0	0.0	-1559.66
96	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	0.0 1.149e+04
		0.0	0.0	-0.06	0.0	110.0	0.0	3.03e-04	-8.21e-05	0.0	0.0	0.0
96	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	0.0-2.29e-05
		-1.059e+04	0.0	-0.11	0.0	110.0	0.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0-1.059e+04
96	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	0.0-1.14e-05
		-1.398e+04	0.0	-0.09	0.0	110.0	0.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0-1.398e+04

96	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.04	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
96	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	-0.08	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
96	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	-0.06	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
96	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-0.05	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
96	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	-0.05	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
96	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.05	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
96	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-0.05	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
97	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.04	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
97	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.08	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
97	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.07	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
97	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	0.06	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
97	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
97	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.06	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
97	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.05	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
97	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	0.04	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
97	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.04	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
97	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
97	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
97	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
98	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
98	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.11	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
98	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.09	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
98	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.04	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
98	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.08	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
98	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.07	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
98	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.05	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
98	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.05	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
98	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.05	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
98	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.05	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
99	4	-1.323e+04	-3829.88	-0.11	-30.47	0.0	0.0	208.06	57.61	0.0	-1.415e+04	-3.829e+04
		-3.829e+04	-1.415e+04	-0.04	43.51	130.0	0.0	177.59	101.12	0.0	-3829.88	-1.323e+04
99	5	4.125e+04	-1.075e+04	0.11	-30.47	0.0	0.0	-185.44	94.55	0.0	-2.587e+04	4.125e+04
		1.517e+04	-2.587e+04	-0.07	43.51	130.0	0.0	-215.90	138.06	0.0	-1.075e+04	1.517e+04
99	7	5.331e+04	-9332.06	0.15	-30.47	0.0	0.0	-246.70	68.53	0.0	-2.107e+04	5.331e+04
		1.926e+04	-2.107e+04	-0.05	43.51	130.0	0.0	-277.17	112.04	0.0	-9332.06	1.926e+04
99	12	-8507.09	-2997.86	-0.07	-23.44	0.0	0.0	136.27	41.89	0.0	-1.062e+04	-2.470e+04
		-2.470e+04	-1.062e+04	-0.03	33.47	130.0	0.0	112.83	75.36	0.0	-2997.86	-8507.09
99	13	2.833e+04	-7612.96	0.08	-23.44	0.0	0.0	-126.06	66.51	0.0	-1.844e+04	2.833e+04
		1.042e+04	-1.844e+04	-0.05	33.47	130.0	0.0	-149.50	99.99	0.0	-7612.96	1.042e+04
99	15	3.637e+04	-6665.98	0.10	-23.44	0.0	0.0	-166.90	49.16	0.0	-1.523e+04	3.637e+04
		1.315e+04	-1.523e+04	-0.04	33.47	130.0	0.0	-190.34	82.64	0.0	-6665.98	1.315e+04
99	18	8858.27	-4824.51	0.02	-23.44	0.0	0.0	-30.44	43.47	0.0	-1.265e+04	8858.27
		3378.15	-1.265e+04	-0.03	33.47	130.0	0.0	-53.87	76.94	0.0	-4824.51	3378.15
99	19	1.312e+04	-4486.79	0.04	-23.44	0.0	0.0	-51.97	36.38	0.0	-1.139e+04	1.312e+04
		4838.67	-1.139e+04	-0.03	33.47	130.0	0.0	-75.40	69.85	0.0	-4486.79	4838.67
99	20	1496.03	-4024.71	3.73e-03	-23.44	0.0	0.0	6.45	38.09	0.0	-1.115e+04	1381.57
		696.88	-1.115e+04	-0.03	33.47	130.0	0.0	-16.99	71.56	0.0	-4024.71	696.88
99	21	7901.66	-4281.42	0.02	-23.44	0.0	0.0	-26.00	37.14	0.0	-1.128e+04	7901.66

		2997.88	-1.128e+04	-0.03	33.47	130.0	0.0	-49.44	70.61	0.0	-4281.42	2997.88
100	1	0.0	0.0	0.03	-38.51	0.0	5.60e-05	7.85e-05	0.0	0.0	0.0	0.0
		-2117.79	0.0	-0.01	0.0	110.0	54.99	-38.51	0.0	0.0	0.0	-2117.79
100	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	6.12e-03	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
100	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
100	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
100	9	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-9.41e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
100	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	3.07e-03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
100	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.02	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
100	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.02	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
100	17	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-9.41e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
100	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.01	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
100	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.01	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
100	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-6.92e-03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
100	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-9.41e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
101	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
101	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
101	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
101	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
101	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
101	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
101	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
101	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
101	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
102	1	7052.05	0.0	-0.15	-53.12	0.0	0.0	383.24	0.0	0.0	0.0	-3.932e+04
		-3.932e+04	0.0	0.0	0.0	130.0	0.0	330.13	0.0	0.0	0.0	7052.05
102	2	3.663e+04	0.0	-0.74	-53.12	0.0	0.0	1766.01	0.0	0.0	0.0	-1.895e+05
		-1.895e+05	0.0	0.0	0.0	130.0	0.0	1712.89	0.0	0.0	0.0	3.663e+04
102	4	6.263e+04	0.0	0.24	-53.12	0.0	0.0	-555.30	0.0	0.0	0.0	6.263e+04
		-1.302e+04	0.0	0.0	0.0	130.0	0.0	-608.42	0.0	0.0	0.0	-1.302e+04
102	5	4.626e+04	0.0	-0.93	-53.12	0.0	0.0	2216.51	0.0	0.0	0.0	-2.384e+05
		-2.384e+05	0.0	0.0	0.0	130.0	0.0	2163.39	0.0	0.0	0.0	4.626e+04
102	9	5246.21	0.0	-0.11	-40.86	0.0	0.0	286.46	0.0	0.0	0.0	-2.934e+04
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	245.60	0.0	0.0	0.0	5246.21
102	10	2.496e+04	0.0	-0.50	-40.86	0.0	0.0	1208.30	0.0	0.0	0.0	-1.295e+05
		-1.295e+05	0.0	0.0	0.0	130.0	0.0	1167.44	0.0	0.0	0.0	2.496e+04
102	12	3.862e+04	0.0	0.15	-40.86	0.0	0.0	-339.23	0.0	0.0	0.0	3.862e+04
		-8132.75	0.0	0.0	0.0	130.0	0.0	-380.09	0.0	0.0	0.0	-8132.75
102	13	3.139e+04	0.0	-0.63	-40.86	0.0	0.0	1508.64	0.0	0.0	0.0	-1.621e+05
		-1.621e+05	0.0	0.0	0.0	130.0	0.0	1467.77	0.0	0.0	0.0	3.139e+04
102	17	5246.21	0.0	-0.11	-40.86	0.0	0.0	286.46	0.0	0.0	0.0	-2.934e+04
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	245.60	0.0	0.0	0.0	5246.21
102	18	9189.80	0.0	-0.19	-40.86	0.0	0.0	470.83	0.0	0.0	0.0	-4.936e+04
		-4.936e+04	0.0	0.0	0.0	130.0	0.0	429.97	0.0	0.0	0.0	9189.80
102	20	2570.42	0.0	-0.06	-40.86	0.0	0.0	161.32	0.0	0.0	0.0	-1.575e+04
		-1.575e+04	0.0	0.0	0.0	130.0	0.0	120.46	0.0	0.0	0.0	2570.42
102	21	5246.21	0.0	-0.11	-40.86	0.0	0.0	286.46	0.0	0.0	0.0	-2.934e+04
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	245.60	0.0	0.0	0.0	5246.21
103	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
103	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
103	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
103	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21

103	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0	6355.79
103	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0	-2.045e+04
103	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
103	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	0.0	-5393.31
103	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
105	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	0.0	1.149e+04
		0.0	0.0	6.12e-03	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0	0.0
105	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	-0.03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	0.0	-2.29e-05
105	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	-0.03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	0.0	-1.14e-05
105	8	1.052e+04	0.0	1.16	191.35	0.0	-80.19	-191.35	0.0	0.0	0.0	0.0	1.052e+04
		-1.14e-05	0.0	2.05e-03	0.0	110.0	2.76e-04	-1.18e-04	0.0	0.0	0.0	0.0	-1.14e-05
105	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	0.0	7515.31
		0.0	0.0	3.07e-03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0	0.0
105	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	-0.02	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	0.0	-1.53e-05
105	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	-0.02	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	0.0	-7.63e-06
105	16	6868.44	0.0	0.77	124.88	0.0	-57.30	-124.88	0.0	0.0	0.0	0.0	6868.44
		-7.63e-06	0.0	3.65e-04	0.0	110.0	1.80e-04	-8.45e-05	0.0	0.0	0.0	0.0	-7.63e-06
105	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-0.01	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	0.0	-3.05e-06
105	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	-0.01	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0	0.0
105	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	0.0	255.33
		0.0	0.0	-6.92e-03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0	0.0
105	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-9.41e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0	0.0
106	4	6.222e+04	2.644e+04	-0.14	-30.47	0.0	0.0	595.58	211.11	0.0	-3829.88	-1.323e+04	0.0
		-1.323e+04	-3829.88	-0.05	43.51	130.0	0.0	565.11	254.62	0.0	2.644e+04	6.222e+04	0.0
106	5	1.517e+04	3.742e+04	0.16	-30.47	0.0	0.0	-601.08	348.83	0.0	-1.075e+04	1.517e+04	0.0
		-6.496e+04	-1.075e+04	-0.11	43.51	130.0	0.0	-631.55	392.34	0.0	3.742e+04	-6.496e+04	0.0
106	6	2.008e+04	4.050e+04	-0.04	-30.47	0.0	0.0	196.40	356.53	0.0	-8673.15	-3472.61	0.0
		-3472.61	-8673.15	-0.10	43.51	130.0	0.0	165.93	400.04	0.0	4.050e+04	2.008e+04	0.0
106	7	1.926e+04	2.891e+04	0.20	-30.47	0.0	0.0	-785.47	272.41	0.0	-9332.06	1.926e+04	0.0
		-8.483e+04	-9332.06	-0.09	43.51	130.0	0.0	-815.93	315.93	0.0	2.891e+04	-8.483e+04	0.0
106	12	4.016e+04	1.950e+04	-0.09	-23.44	0.0	0.0	386.12	156.36	0.0	-2997.86	-8507.09	0.0
		-8507.09	-2997.86	-0.04	33.47	130.0	0.0	362.68	189.83	0.0	1.950e+04	4.016e+04	0.0
106	13	1.042e+04	2.682e+04	0.11	-23.44	0.0	0.0	-411.66	248.17	0.0	-7612.96	1.042e+04	0.0
		-4.462e+04	-7612.96	-0.08	33.47	130.0	0.0	-435.10	281.64	0.0	2.682e+04	-4.462e+04	0.0
106	14	1.207e+04	2.888e+04	-0.02	-23.44	0.0	0.0	120.00	253.30	0.0	-6226.71	-2003.75	0.0
		-2003.75	-6226.71	-0.07	33.47	130.0	0.0	96.56	286.77	0.0	2.888e+04	1.207e+04	0.0
106	15	1.315e+04	2.115e+04	0.14	-23.44	0.0	0.0	-534.58	197.23	0.0	-6665.98	1.315e+04	0.0
		-5.787e+04	-6665.98	-0.07	33.47	130.0	0.0	-558.02	230.70	0.0	2.115e+04	-5.787e+04	0.0
106	18	3378.15	1.963e+04	0.04	-23.44	0.0	0.0	-120.00	171.37	0.0	-4824.51	3378.15	0.0
		-1.374e+04	-4824.51	-0.05	33.47	130.0	0.0	-143.43	204.85	0.0	1.963e+04	-1.374e+04	0.0
106	19	4838.67	1.730e+04	0.05	-23.44	0.0	0.0	-184.92	150.85	0.0	-4486.79	4838.67	0.0
		-2.072e+04	-4486.79	-0.05	33.47	130.0	0.0	-208.36	184.32	0.0	1.730e+04	-2.072e+04	0.0
106	20	696.88	1.798e+04	8.33e-03	-23.44	0.0	0.0	-7.70	152.56	0.0	-4024.71	696.88	0.0
		-1827.58	-4024.71	-0.04	33.47	130.0	0.0	-31.14	186.03	0.0	1.798e+04	-1827.58	0.0
106	21	2997.88	1.760e+04	0.03	-23.44	0.0	0.0	-106.16	151.61	0.0	-4281.42	2997.88	0.0
		-1.233e+04	-4281.42	-0.05	33.47	130.0	0.0	-129.59	185.08	0.0	1.760e+04	-1.233e+04	0.0
107	3	4.296e+04	3603.50	-0.11	-30.47	0.0	0.0	299.44	-129.85	0.0	3603.50	6011.09	0.0
		6011.09	-1.045e+04	0.06	43.51	130.0	0.0	268.97	-86.34	0.0	-1.045e+04	4.296e+04	0.0
107	4	-7704.40	-4232.26	0.08	-30.47	0.0	0.0	-193.00	-96.60	0.0	-4232.26	-7704.40	0.0
		-3.477e+04	-1.396e+04	0.02	43.51	130.0	0.0	-223.47	-53.09	0.0	-1.396e+04	-3.477e+04	0.0
107	6	-4455.71	-2777.76	0.02	-30.47	0.0	0.0	-40.81	-165.06	0.0	-2777.76	-4455.71	0.0
		-1.174e+04	-2.141e+04	0.06	43.51	130.0	0.0	-71.28	-121.54	0.0	-2.141e+04	-1.174e+04	0.0
107	7	4.584e+04	3460.11	-0.12	-30.47	0.0	0.0	320.82	-160.39	0.0	3460.11	6111.49	0.0
		6111.49	-1.456e+04	0.07	43.51	130.0	0.0	290.35	-116.87	0.0	-1.456e+04	4.584e+04	0.0
107	11	2.929e+04	2424.99	-0.08	-23.44	0.0	0.0	206.36	-96.19	0.0	2424.99	3991.53	0.0
		3991.53	-7903.71	0.04	33.47	130.0	0.0	182.92	-62.72	0.0	-7903.71	2.929e+04	0.0
107	12	-5152.14	-2798.85	0.05	-23.44	0.0	0.0	-121.93	-74.02	0.0	-2798.85	-5152.14	0.0
		-2.253e+04	-1.025e+04	0.02	33.47	130.0	0.0	-145.37	-40.55	0.0	-1.025e+04	-2.253e+04	0.0
107	14	-2986.34	-1829.18	9.37e-03	-23.44	0.0	0.0	-20.47	-119.66	0.0	-1829.18	-2986.34	0.0
		-7171.11	-1.521e+04	0.04	33.47	130.0	0.0	-43.91	-86.18	0.0	-1.521e+04	-7171.11	0.0
107	15	3.121e+04	2329.40	-0.08	-23.44	0.0	0.0	220.61	-116.54	0.0	2329.40	4058.46	0.0
		4058.46	-1.065e+04	0.05	33.47	130.0	0.0	197.18	-83.07	0.0	-1.065e+04	3.121e+04	0.0
107	18	7030.94	65.05	-0.02	-23.44	0.0	0.0	66.15	-94.48	0.0	65.05	-45.55	0.0
		-45.55	-1.004e+04	0.03	33.47	130.0	0.0	42.72	-61.01	0.0	-1.004e+04	7030.94	0.0
107	19	1.087e+04	567.63	-0.03	-23.44	0.0	0.0	89.63	-88.30	0.0	567.63	740.45	0.0

107	20	740.45	-8736.35	0.03	33.47	130.0	0.0	66.20	-54.83	0.0	-8736.35	1.087e+04
		505.06	-477.14	-7.28e-03	-23.44	0.0	0.0	23.97	-83.87	0.0	-477.14	-1088.29
		-1088.29	-9204.72	0.03	33.47	130.0	0.0	0.54	-50.40	0.0	-9204.72	505.06
107	21	6263.00	103.29	-0.02	-23.44	0.0	0.0	60.45	-86.33	0.0	103.29	-72.32
		-72.32	-8944.51	0.03	33.47	130.0	0.0	37.01	-52.86	0.0	-8944.51	6263.00
108	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
108	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
108	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
108	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
108	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
108	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
108	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
108	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
108	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
109	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	0.02	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
109	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.07	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
109	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.06	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
109	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
109	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	0.09	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
109	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	0.02	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
109	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.05	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
109	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.04	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
109	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.03	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
109	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
109	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.04	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
109	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
109	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.04	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
109	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
110	1	2.906e+04	0.0	-0.13	-53.12	0.0	0.0	195.86	0.0	0.0	0.0	7052.05
		7052.05	0.0	0.0	0.0	130.0	0.0	142.74	0.0	0.0	0.0	2.906e+04
110	2	1.436e+05	0.0	-0.61	-53.12	0.0	0.0	849.32	0.0	0.0	0.0	3.663e+04
		3.663e+04	0.0	0.0	0.0	130.0	0.0	796.20	0.0	0.0	0.0	1.436e+05
110	4	-1.302e+04	0.0	0.20	-53.12	0.0	0.0	-247.68	0.0	0.0	0.0	-1.302e+04
		-4.867e+04	0.0	0.0	0.0	130.0	0.0	-300.80	0.0	0.0	0.0	-4.867e+04
110	5	1.809e+05	0.0	-0.77	-53.12	0.0	0.0	1062.22	0.0	0.0	0.0	4.626e+04
		4.626e+04	0.0	0.0	0.0	130.0	0.0	1009.10	0.0	0.0	0.0	1.809e+05
110	9	2.166e+04	0.0	-0.09	-40.86	0.0	0.0	146.72	0.0	0.0	0.0	5246.21
		5246.21	0.0	0.0	0.0	130.0	0.0	105.86	0.0	0.0	0.0	2.166e+04
110	10	9.802e+04	0.0	-0.42	-40.86	0.0	0.0	582.36	0.0	0.0	0.0	2.496e+04
		2.496e+04	0.0	0.0	0.0	130.0	0.0	541.50	0.0	0.0	0.0	9.802e+04
110	12	-8132.75	0.0	0.13	-40.86	0.0	0.0	-148.98	0.0	0.0	0.0	-8132.75
		-3.016e+04	0.0	0.0	0.0	130.0	0.0	-189.84	0.0	0.0	0.0	-3.016e+04
110	13	1.229e+05	0.0	-0.52	-40.86	0.0	0.0	724.29	0.0	0.0	0.0	3.139e+04
		3.139e+04	0.0	0.0	0.0	130.0	0.0	683.43	0.0	0.0	0.0	1.229e+05
110	17	2.166e+04	0.0	-0.09	-40.86	0.0	0.0	146.72	0.0	0.0	0.0	5246.21
		5246.21	0.0	0.0	0.0	130.0	0.0	105.86	0.0	0.0	0.0	2.166e+04
110	18	3.693e+04	0.0	-0.16	-40.86	0.0	0.0	233.85	0.0	0.0	0.0	9189.80
		9189.80	0.0	0.0	0.0	130.0	0.0	192.99	0.0	0.0	0.0	3.693e+04
110	20	1.130e+04	0.0	-0.05	-40.86	0.0	0.0	87.58	0.0	0.0	0.0	2570.42
		2570.42	0.0	0.0	0.0	130.0	0.0	46.72	0.0	0.0	0.0	1.130e+04
110	21	2.166e+04	0.0	-0.09	-40.86	0.0	0.0	146.72	0.0	0.0	0.0	5246.21
		5246.21	0.0	0.0	0.0	130.0	0.0	105.86	0.0	0.0	0.0	2.166e+04
111	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27

111	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
111	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
111	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
111	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
111	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
111	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
111	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
111	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
112	2	-1.14e-05	0.0	-0.03	-39.33	0.0	-56.17	39.33	0.0	0.0	0.0	-2163.31
		-2163.31	0.0	-0.29	0.0	110.0	-5.94e-05	-8.23e-05	0.0	0.0	0.0	-1.14e-05
112	4	1.242e+04	0.0	1.19	225.81	0.0	-30.98	-225.81	0.0	0.0	0.0	1.242e+04
		0.0	0.0	-0.29	0.0	110.0	3.28e-04	-4.62e-05	0.0	0.0	0.0	0.0
112	5	-1.14e-05	0.0	-0.61	-158.13	0.0	-56.17	158.13	0.0	0.0	0.0	-8697.29
		-8697.29	0.0	-0.24	0.0	110.0	-2.32e-04	-8.23e-05	0.0	0.0	0.0	-1.14e-05
112	6	6004.17	0.0	0.69	109.17	0.0	-56.17	-109.17	0.0	0.0	0.0	6004.17
		-1.14e-05	0.0	-0.36	0.0	110.0	1.56e-04	-8.23e-05	0.0	0.0	0.0	-1.14e-05
112	7	-5.72e-06	0.0	-0.99	-228.51	0.0	-43.58	228.51	0.0	0.0	0.0	-1.257e+04
		-1.257e+04	0.0	-0.15	0.0	110.0	-3.34e-04	-6.43e-05	0.0	0.0	0.0	-5.72e-06
112	10	-7.63e-06	0.0	-0.02	-27.82	0.0	-39.73	27.82	0.0	0.0	0.0	-1529.86
		-1529.86	0.0	-0.21	0.0	110.0	-4.19e-05	-5.83e-05	0.0	0.0	0.0	-7.63e-06
112	12	8191.99	0.0	0.79	148.95	0.0	-22.93	-148.95	0.0	0.0	0.0	8191.99
		0.0	0.0	-0.20	0.0	110.0	2.16e-04	-3.42e-05	0.0	0.0	0.0	0.0
112	13	-7.63e-06	0.0	-0.41	-107.02	0.0	-39.73	107.02	0.0	0.0	0.0	-5885.85
		-5885.85	0.0	-0.17	0.0	110.0	-1.57e-04	-5.83e-05	0.0	0.0	0.0	-7.63e-06
112	14	3915.12	0.0	0.46	71.18	0.0	-39.73	-71.18	0.0	0.0	0.0	3915.12
		-7.63e-06	0.0	-0.25	0.0	110.0	1.02e-04	-5.83e-05	0.0	0.0	0.0	-7.63e-06
112	15	-3.81e-06	0.0	-0.66	-153.94	0.0	-31.33	153.94	0.0	0.0	0.0	-8466.41
		-8466.41	0.0	-0.11	0.0	110.0	-2.25e-04	-4.62e-05	0.0	0.0	0.0	-3.81e-06
112	18	-1.53e-06	0.0	-0.01	-18.41	0.0	-26.29	18.41	0.0	0.0	0.0	-1012.37
		-1012.37	0.0	-0.15	0.0	110.0	-2.74e-05	-3.90e-05	0.0	0.0	0.0	-1.53e-06
112	19	0.0	0.0	-0.14	-42.45	0.0	-22.93	42.45	0.0	0.0	0.0	-2334.99
		-2334.99	0.0	-0.12	0.0	110.0	-6.22e-05	-3.42e-05	0.0	0.0	0.0	0.0
112	20	932.00	0.0	0.15	16.95	0.0	-22.93	-16.95	0.0	0.0	0.0	932.00
		0.0	0.0	-0.15	0.0	110.0	2.42e-05	-3.42e-05	0.0	0.0	0.0	0.0
112	21	0.0	0.0	-0.01	-16.05	0.0	-22.93	16.05	0.0	0.0	0.0	-882.99
		-882.99	0.0	-0.13	0.0	110.0	-2.38e-05	-3.42e-05	0.0	0.0	0.0	0.0
113	4	237.88	166.57	-0.63	-30.47	0.0	0.0	462.80	159.82	0.0	-2.344e+04	-5.795e+04
		-5.795e+04	-2.344e+04	-0.31	43.51	130.0	0.0	432.33	203.34	0.0	166.57	237.88
113	6	142.73	99.94	-0.25	-30.47	0.0	0.0	158.73	265.78	0.0	-3.728e+04	-1.851e+04
		-1.851e+04	-3.728e+04	-0.38	43.51	130.0	0.0	128.26	309.29	0.0	99.94	142.73
113	7	7.900e+04	-133.25	0.78	-30.47	0.0	0.0	-593.90	191.56	0.0	-2.786e+04	7.900e+04
		-190.31	-2.786e+04	-0.14	43.51	130.0	0.0	-624.37	235.08	0.0	-133.25	-190.31
113	8	237.88	166.57	-0.59	-30.47	0.0	0.0	423.85	215.46	0.0	-3.067e+04	-5.288e+04
		-5.288e+04	-3.067e+04	-0.37	43.51	130.0	0.0	393.38	258.97	0.0	166.57	237.88
113	12	158.59	111.04	-0.41	-23.44	0.0	0.0	300.79	117.60	0.0	-1.735e+04	-3.742e+04
		-3.742e+04	-1.735e+04	-0.22	33.47	130.0	0.0	277.36	151.07	0.0	111.04	158.59
113	14	95.15	66.63	-0.15	-23.44	0.0	0.0	98.08	188.24	0.0	-2.658e+04	-1.113e+04
		-1.113e+04	-2.658e+04	-0.27	33.47	130.0	0.0	74.64	221.71	0.0	66.63	95.15
113	15	5.387e+04	-88.84	0.53	-23.44	0.0	0.0	-403.67	138.76	0.0	-2.030e+04	5.387e+04
		-126.87	-2.030e+04	-0.11	33.47	130.0	0.0	-427.11	172.23	0.0	-88.84	-126.87
113	16	158.59	111.04	-0.38	-23.44	0.0	0.0	274.83	154.69	0.0	-2.217e+04	-3.405e+04
		-3.405e+04	-2.217e+04	-0.26	33.47	130.0	0.0	251.39	188.16	0.0	111.04	158.59
113	18	1.277e+04	-3.36e-04	0.11	-23.44	0.0	0.0	-86.54	123.59	0.0	-1.824e+04	1.277e+04
		-4.73e-04	-1.824e+04	-0.15	33.47	130.0	0.0	-109.97	157.06	0.0	-3.36e-04	-4.73e-04
113	19	1.924e+04	-17.77	0.18	-23.44	0.0	0.0	-136.46	107.34	0.0	-1.615e+04	1.924e+04
		-25.37	-1.615e+04	-0.12	33.47	130.0	0.0	-159.90	140.81	0.0	-17.77	-25.37
113	20	1653.99	22.21	-6.10e-03	-23.44	0.0	0.0	-0.76	110.52	0.0	-1.652e+04	1653.99
		31.72	-1.652e+04	-0.15	33.47	130.0	0.0	-24.20	143.99	0.0	22.21	31.72
113	21	1.142e+04	-3.36e-04	0.10	-23.44	0.0	0.0	-76.15	108.75	0.0	-1.631e+04	1.142e+04
		-4.73e-04	-1.631e+04	-0.14	33.47	130.0	0.0	-99.59	142.22	0.0	-3.36e-04	-4.73e-04
114	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.07	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
114	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	0.06	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
114	6	4109.08	0.0	0.67	74.71	0.0	-105.38	-74.71	0.0	0.0	0.0	4109.08
		-2.29e-05	0.0	0.09	0.0	110.0	1.04e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
114	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
114	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31

		0.0	0.0	0.05	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
114	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.04	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
114	14	2591.58	0.0	0.44	47.12	0.0	-74.09	-47.12	0.0	0.0	0.0	2591.58
		-1.53e-05	0.0	0.06	0.0	110.0	6.57e-05	-1.09e-04	0.0	0.0	0.0	-1.53e-05
114	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.03	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
114	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.04	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
114	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
114	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.04	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
114	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
115	4	6.222e+04	2.644e+04	0.13	-30.47	0.0	0.0	-551.57	-253.90	0.0	2.644e+04	6.222e+04
		-1.147e+04	-3736.97	0.06	43.51	130.0	0.0	-582.04	-210.39	0.0	-3736.97	-1.147e+04
115	5	1.199e+04	3.742e+04	-0.11	-30.47	0.0	0.0	607.11	-367.06	0.0	3.742e+04	-6.496e+04
		-6.496e+04	-7465.82	0.04	43.51	130.0	0.0	576.64	-323.55	0.0	-7465.82	1.199e+04
115	6	2.008e+04	4.050e+04	0.05	-30.47	0.0	0.0	-166.63	-387.01	0.0	4.050e+04	2.008e+04
		-3563.33	-6979.70	0.08	43.51	130.0	0.0	-197.10	-343.50	0.0	-6979.70	-3563.33
115	7	1.552e+04	2.891e+04	-0.16	-30.47	0.0	0.0	787.18	-290.90	0.0	2.891e+04	-8.483e+04
		-8.483e+04	-6078.51	0.02	43.51	130.0	0.0	756.71	-247.39	0.0	-6078.51	1.552e+04
115	12	4.016e+04	1.950e+04	0.09	-23.44	0.0	0.0	-354.33	-188.39	0.0	1.950e+04	4.016e+04
		-7421.07	-2811.23	0.05	33.47	130.0	0.0	-377.76	-154.92	0.0	-2811.23	-7421.07
115	13	8216.04	2.682e+04	-0.08	-23.44	0.0	0.0	418.13	-263.83	0.0	2.682e+04	-4.462e+04
		-4.462e+04	-5297.13	0.03	33.47	130.0	0.0	394.69	-230.36	0.0	-5297.13	8216.04
115	14	1.207e+04	2.888e+04	0.03	-23.44	0.0	0.0	-97.70	-277.13	0.0	2.888e+04	1.207e+04
		-2151.55	-4973.05	0.05	33.47	130.0	0.0	-121.13	-243.66	0.0	-4973.05	-2151.55
115	15	1.057e+04	2.115e+04	-0.11	-23.44	0.0	0.0	538.17	-213.06	0.0	2.115e+04	-5.787e+04
		-5.787e+04	-4372.25	0.02	33.47	130.0	0.0	514.74	-179.58	0.0	-4372.25	1.057e+04
115	18	2464.48	1.963e+04	-0.02	-23.44	0.0	0.0	136.41	-194.81	0.0	1.963e+04	-1.374e+04
		-1.374e+04	-3519.66	0.03	33.47	130.0	0.0	112.97	-161.34	0.0	-3519.66	2464.48
115	19	3714.49	1.730e+04	-0.03	-23.44	0.0	0.0	199.71	-174.11	0.0	1.730e+04	-2.072e+04
		-2.072e+04	-3159.31	0.02	33.47	130.0	0.0	176.27	-140.63	0.0	-3159.31	3714.49
115	20	258.62	1.798e+04	2.58e-03	-23.44	0.0	0.0	27.77	-178.54	0.0	1.798e+04	-1827.58
		-1827.58	-3051.28	0.03	33.47	130.0	0.0	4.33	-145.07	0.0	-3051.28	258.62
115	21	2178.55	1.760e+04	-0.02	-23.44	0.0	0.0	123.29	-176.08	0.0	1.760e+04	-1.233e+04
		-1.233e+04	-3111.30	0.03	33.47	130.0	0.0	99.85	-142.60	0.0	-3111.30	2178.55
116	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	-0.03	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
116	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.02	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
116	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
116	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
116	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	0.01	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
116	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	-0.02	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
116	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	9.68e-03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
116	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.02	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
116	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.02	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
116	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	7.82e-03	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
116	17	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-6.44e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
116	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-7.18e-03	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
116	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-9.01e-03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
116	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-3.21e-03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
116	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-6.44e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
117	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
117	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
117	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
117	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0

117	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
117	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
117	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
117	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
117	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
118	1	2.915e+04	0.0	0.06	-53.12	0.0	0.0	8.48	0.0	0.0	0.0	2.906e+04
		2.671e+04	0.0	0.0	0.0	130.0	0.0	-44.64	0.0	0.0	0.0	2.671e+04
118	2	1.436e+05	0.0	0.28	-53.12	0.0	0.0	-67.36	0.0	0.0	0.0	1.436e+05
		1.314e+05	0.0	0.0	0.0	130.0	0.0	-120.48	0.0	0.0	0.0	1.314e+05
118	4	4.433e+04	0.0	-0.09	-53.12	0.0	0.0	59.93	0.0	0.0	0.0	-4.867e+04
		-4.867e+04	0.0	0.0	0.0	130.0	0.0	6.82	0.0	0.0	0.0	-4.433e+04
118	5	1.809e+05	0.0	0.35	-53.12	0.0	0.0	-92.06	0.0	0.0	0.0	1.809e+05
		1.655e+05	0.0	0.0	0.0	130.0	0.0	-145.18	0.0	0.0	0.0	1.655e+05
118	9	2.174e+04	0.0	0.04	-40.86	0.0	0.0	6.98	0.0	0.0	0.0	2.166e+04
		1.992e+04	0.0	0.0	0.0	130.0	0.0	-33.88	0.0	0.0	0.0	1.992e+04
118	10	9.802e+04	0.0	0.19	-40.86	0.0	0.0	-43.58	0.0	0.0	0.0	9.802e+04
		8.969e+04	0.0	0.0	0.0	130.0	0.0	-84.44	0.0	0.0	0.0	8.969e+04
118	12	-2.744e+04	0.0	-0.06	-40.86	0.0	0.0	41.28	0.0	0.0	0.0	-3.016e+04
		-3.016e+04	0.0	0.0	0.0	130.0	0.0	0.42	0.0	0.0	0.0	-2.744e+04
118	13	1.229e+05	0.0	0.24	-40.86	0.0	0.0	-60.05	0.0	0.0	0.0	1.229e+05
		1.124e+05	0.0	0.0	0.0	130.0	0.0	-100.91	0.0	0.0	0.0	1.124e+05
118	17	2.174e+04	0.0	0.04	-40.86	0.0	0.0	6.98	0.0	0.0	0.0	2.166e+04
		1.992e+04	0.0	0.0	0.0	130.0	0.0	-33.88	0.0	0.0	0.0	1.992e+04
118	18	3.693e+04	0.0	0.07	-40.86	0.0	0.0	-3.13	0.0	0.0	0.0	3.693e+04
		3.387e+04	0.0	0.0	0.0	130.0	0.0	-43.99	0.0	0.0	0.0	3.387e+04
118	20	1.160e+04	0.0	0.02	-40.86	0.0	0.0	13.84	0.0	0.0	0.0	1.130e+04
		1.044e+04	0.0	0.0	0.0	130.0	0.0	-27.02	0.0	0.0	0.0	1.044e+04
118	21	2.174e+04	0.0	0.04	-40.86	0.0	0.0	6.98	0.0	0.0	0.0	2.166e+04
		1.992e+04	0.0	0.0	0.0	130.0	0.0	-33.88	0.0	0.0	0.0	1.992e+04
119	1	0.0	0.0	0.03	-37.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2079.95	0.0	0.0	0.0	110.0	0.0	-37.82	0.0	0.0	0.0	-2079.95
119	4	1.153e+04	0.0	-0.16	209.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	209.68	0.0	0.0	0.0	1.153e+04
119	5	-1.83e-04	0.0	0.26	-338.94	0.0	0.0	0.0	0.0	0.0	0.0	-1.83e-04
		-1.864e+04	0.0	0.0	0.0	110.0	0.0	-338.94	0.0	0.0	0.0	-1.864e+04
119	9	0.0	0.0	0.02	-27.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-1539.46	0.0	0.0	0.0	110.0	0.0	-27.99	0.0	0.0	0.0	-1539.46
119	12	7535.54	0.0	-0.11	137.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	137.01	0.0	0.0	0.0	7535.54
119	13	-1.22e-04	0.0	0.18	-228.74	0.0	0.0	0.0	0.0	0.0	0.0	-1.22e-04
		-1.258e+04	0.0	0.0	0.0	110.0	0.0	-228.74	0.0	0.0	0.0	-1.258e+04
119	17	0.0	0.0	0.02	-27.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-1539.46	0.0	0.0	0.0	110.0	0.0	-27.99	0.0	0.0	0.0	-1539.46
119	19	0.0	0.0	0.04	-54.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2991.46	0.0	0.0	0.0	110.0	0.0	-54.39	0.0	0.0	0.0	-2991.46
119	20	275.54	0.0	-3.86e-03	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	5.01	0.0	0.0	0.0	275.54
119	21	0.0	0.0	0.02	-27.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-1539.46	0.0	0.0	0.0	110.0	0.0	-27.99	0.0	0.0	0.0	-1539.46
120	3	0.0	0.0	-1.00	-236.51	0.0	-54.99	236.51	0.0	0.0	0.0	-1.301e+04
		-1.301e+04	0.0	-0.02	0.0	110.0	-3.45e-04	-8.21e-05	0.0	0.0	0.0	0.0
120	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.07	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
120	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	-0.06	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
120	6	4109.08	0.0	0.67	74.71	0.0	-105.38	-74.71	0.0	0.0	0.0	4109.08
		-2.29e-05	0.0	-0.09	0.0	110.0	1.04e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
120	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	-0.03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
120	11	0.0	0.0	-0.67	-160.36	0.0	-40.50	160.36	0.0	0.0	0.0	-8819.65
		-8819.65	0.0	-0.02	0.0	110.0	-2.34e-04	-6.05e-05	0.0	0.0	0.0	0.0
120	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.05	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
120	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	-0.04	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
120	14	2591.58	0.0	0.44	47.12	0.0	-74.09	-47.12	0.0	0.0	0.0	2591.58
		-1.53e-05	0.0	-0.06	0.0	110.0	6.57e-05	-1.09e-04	0.0	0.0	0.0	-1.53e-05
120	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	-0.03	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
120	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-0.04	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
120	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66

		-3011.66	0.0	-0.03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
120	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.04	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
120	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-0.03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
121	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.02	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
121	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	-0.03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
121	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	-0.03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
121	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	9.68e-03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
121	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	-0.02	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
121	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	-0.02	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
121	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-7.18e-03	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
121	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	-9.01e-03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
121	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-3.21e-03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
121	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-6.44e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
123	1	0.0	0.0	-0.03	-37.82	0.0	0.0	37.82	0.0	0.0	0.0	-2079.95
		-2079.95	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
123	4	1.153e+04	0.0	0.16	209.68	0.0	0.0	-209.68	0.0	0.0	0.0	1.153e+04
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
123	5	-1.83e-04	0.0	-0.26	-338.94	0.0	0.0	338.94	0.0	0.0	0.0	-1.864e+04
		-1.864e+04	0.0	0.0	0.0	110.0	0.0	4.91e-06	0.0	0.0	0.0	-1.83e-04
123	9	0.0	0.0	-0.02	-27.99	0.0	0.0	27.99	0.0	0.0	0.0	-1539.46
		-1539.46	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
123	12	7535.54	0.0	0.11	137.01	0.0	0.0	-137.01	0.0	0.0	0.0	7535.54
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
123	13	-1.22e-04	0.0	-0.18	-228.74	0.0	0.0	228.74	0.0	0.0	0.0	-1.258e+04
		-1.258e+04	0.0	0.0	0.0	110.0	0.0	3.29e-06	0.0	0.0	0.0	-1.22e-04
123	17	0.0	0.0	-0.02	-27.99	0.0	0.0	27.99	0.0	0.0	0.0	-1539.46
		-1539.46	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
123	19	0.0	0.0	-0.04	-54.39	0.0	0.0	54.39	0.0	0.0	0.0	-2991.46
		-2991.46	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
123	20	275.54	0.0	3.86e-03	5.01	0.0	0.0	-5.01	0.0	0.0	0.0	275.54
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
123	21	0.0	0.0	-0.02	-27.99	0.0	0.0	27.99	0.0	0.0	0.0	-1539.46
		-1539.46	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
124	4	-1.147e+04	-3736.97	0.11	-30.47	0.0	0.0	-164.05	-100.41	0.0	-3736.97	-1.147e+04
		-3.477e+04	-1.396e+04	0.06	43.51	130.0	0.0	-194.52	-56.90	0.0	-1.396e+04	-3.477e+04
124	6	-3563.33	-6979.70	0.05	-30.47	0.0	0.0	-47.67	-132.73	0.0	-6979.70	-3563.33
		-1.174e+04	-2.141e+04	0.06	43.51	130.0	0.0	-78.14	-89.22	0.0	-2.141e+04	-1.174e+04
124	7	4.584e+04	-6078.51	-0.13	-30.47	0.0	0.0	248.41	-87.01	0.0	-6078.51	1.552e+04
		1.552e+04	-1.456e+04	0.01	43.51	130.0	0.0	217.95	-43.50	0.0	-1.456e+04	4.584e+04
124	12	-7421.07	-2811.23	0.07	-23.44	0.0	0.0	-104.48	-73.92	0.0	-2811.23	-7421.07
		-2.253e+04	-1.025e+04	0.04	33.47	130.0	0.0	-127.92	-40.45	0.0	-1.025e+04	-2.253e+04
124	14	-2151.55	-4973.05	0.03	-23.44	0.0	0.0	-26.89	-95.47	0.0	-4973.05	-2151.55
		-7171.11	-1.521e+04	0.04	33.47	130.0	0.0	-50.33	-62.00	0.0	-1.521e+04	-7171.11
124	15	3.121e+04	-4372.25	-0.09	-23.44	0.0	0.0	170.50	-64.99	0.0	-4372.25	1.057e+04
		1.057e+04	-1.065e+04	0.01	33.47	130.0	0.0	147.06	-31.52	0.0	-1.065e+04	3.121e+04
124	18	7030.94	-3519.66	-0.01	-23.44	0.0	0.0	46.85	-66.90	0.0	-3519.66	2464.48
		2464.48	-1.004e+04	0.02	33.47	130.0	0.0	23.41	-33.43	0.0	-1.004e+04	7030.94
124	19	1.087e+04	-3159.31	-0.03	-23.44	0.0	0.0	66.76	-59.64	0.0	-3159.31	3714.49
		3714.49	-8736.35	0.02	33.47	130.0	0.0	43.32	-26.16	0.0	-8736.35	1.087e+04
124	20	772.14	-3051.28	4.05e-03	-23.44	0.0	0.0	13.61	-64.07	0.0	-3051.28	258.62
		258.62	-9204.72	0.02	33.47	130.0	0.0	-9.82	-30.60	0.0	-9204.72	505.06
124	21	6263.00	-3111.30	-0.01	-23.44	0.0	0.0	43.14	-61.61	0.0	-3111.30	2178.55
		2178.55	-8944.51	0.02	33.47	130.0	0.0	19.70	-28.14	0.0	-8944.51	6263.00
125	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	-0.05	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
125	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.04	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
125	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.08	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
125	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.07	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
125	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	-0.06	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
125	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	-0.04	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65

125	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
125	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.06	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
125	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.05	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
125	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	-0.04	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
125	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.04	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
125	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
125	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
125	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
126	1	0.0	0.0	0.03	-37.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2079.95	0.0	0.0	0.0	110.0	0.0	-37.82	0.0	0.0	0.0	-2079.95
126	4	1.153e+04	0.0	-0.16	209.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	209.68	0.0	0.0	0.0	1.153e+04
126	5	-1.83e-04	0.0	0.26	-338.94	0.0	0.0	0.0	0.0	0.0	0.0	-1.83e-04
		-1.864e+04	0.0	0.0	0.0	110.0	0.0	-338.94	0.0	0.0	0.0	-1.864e+04
126	9	0.0	0.0	0.02	-27.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-1539.46	0.0	0.0	0.0	110.0	0.0	-27.99	0.0	0.0	0.0	-1539.46
126	12	7535.54	0.0	-0.11	137.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	137.01	0.0	0.0	0.0	7535.54
126	13	-1.22e-04	0.0	0.18	-228.74	0.0	0.0	0.0	0.0	0.0	0.0	-1.22e-04
		-1.258e+04	0.0	0.0	0.0	110.0	0.0	-228.74	0.0	0.0	0.0	-1.258e+04
126	17	0.0	0.0	0.02	-27.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-1539.46	0.0	0.0	0.0	110.0	0.0	-27.99	0.0	0.0	0.0	-1539.46
126	19	0.0	0.0	0.04	-54.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2991.46	0.0	0.0	0.0	110.0	0.0	-54.39	0.0	0.0	0.0	-2991.46
126	20	275.54	0.0	-3.86e-03	5.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	5.01	0.0	0.0	0.0	275.54
126	21	0.0	0.0	0.02	-27.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-1539.46	0.0	0.0	0.0	110.0	0.0	-27.99	0.0	0.0	0.0	-1539.46
127	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
127	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
127	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
127	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
127	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
127	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
127	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
127	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
127	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
128	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
128	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+05
		-1.059e+04	0.0	-0.11	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
128	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	-0.09	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
128	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.04	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
128	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	-0.08	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
128	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	-0.07	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
128	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	-0.05	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
128	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	-0.05	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
128	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.05	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
128	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	-0.05	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
129	1	2.671e+04	0.0	0.22	-53.12	0.0	0.0	-178.91	0.0	0.0	0.0	2.671e+04
		0.0	0.0	0.0	0.0	130.0	0.0	-232.03	0.0	0.0	0.0	0.0
129	2	1.314e+05	0.0	1.08	-53.12	0.0	0.0	-984.04	0.0	0.0	0.0	1.314e+05

		0.0	0.0	0.0	0.0	130.0	0.0	-1037.16	0.0	0.0	0.0	0.0	0.0
129	4	0.0	0.0	-0.36	-53.12	0.0	0.0	367.55	0.0	0.0	0.0	0.0	-4.433e+04
		-4.433e+04	0.0	0.0	0.0	130.0	0.0	314.43	0.0	0.0	0.0	0.0	0.0
129	5	1.655e+05	0.0	1.35	-53.12	0.0	0.0	-1246.34	0.0	0.0	0.0	0.0	1.655e+05
		0.0	0.0	0.0	0.0	130.0	0.0	-1299.46	0.0	0.0	0.0	0.0	0.0
129	9	1.992e+04	0.0	0.17	-40.86	0.0	0.0	-132.76	0.0	0.0	0.0	0.0	1.992e+04
		0.0	0.0	0.0	0.0	130.0	0.0	-173.62	0.0	0.0	0.0	0.0	0.0
129	10	8.969e+04	0.0	0.74	-40.86	0.0	0.0	-669.52	0.0	0.0	0.0	0.0	8.969e+04
		0.0	0.0	0.0	0.0	130.0	0.0	-710.38	0.0	0.0	0.0	0.0	0.0
129	12	0.0	0.0	-0.22	-40.86	0.0	0.0	231.54	0.0	0.0	0.0	0.0	-2.744e+04
		-2.744e+04	0.0	0.0	0.0	130.0	0.0	190.68	0.0	0.0	0.0	0.0	0.0
129	13	1.124e+05	0.0	0.92	-40.86	0.0	0.0	-844.39	0.0	0.0	0.0	0.0	1.124e+05
		0.0	0.0	0.0	0.0	130.0	0.0	-885.25	0.0	0.0	0.0	0.0	0.0
129	17	1.992e+04	0.0	0.17	-40.86	0.0	0.0	-132.76	0.0	0.0	0.0	0.0	1.992e+04
		0.0	0.0	0.0	0.0	130.0	0.0	-173.62	0.0	0.0	0.0	0.0	0.0
129	18	3.387e+04	0.0	0.28	-40.86	0.0	0.0	-240.11	0.0	0.0	0.0	0.0	3.387e+04
		0.0	0.0	0.0	0.0	130.0	0.0	-280.98	0.0	0.0	0.0	0.0	0.0
129	20	1.044e+04	0.0	0.09	-40.86	0.0	0.0	-59.90	0.0	0.0	0.0	0.0	1.044e+04
		0.0	0.0	0.0	0.0	130.0	0.0	-100.76	0.0	0.0	0.0	0.0	0.0
129	21	1.992e+04	0.0	0.17	-40.86	0.0	0.0	-132.76	0.0	0.0	0.0	0.0	1.992e+04
		0.0	0.0	0.0	0.0	130.0	0.0	-173.62	0.0	0.0	0.0	0.0	0.0
130	1	0.0	0.0	-0.03	-37.82	0.0	0.0	37.82	0.0	0.0	0.0	0.0	-2079.95
		-2079.95	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	4	1.153e+04	0.0	0.16	209.68	0.0	0.0	-209.68	0.0	0.0	0.0	0.0	1.153e+04
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	5	-1.83e-04	0.0	-0.26	-338.94	0.0	0.0	338.94	0.0	0.0	0.0	0.0	-1.864e+04
		-1.864e+04	0.0	0.0	0.0	110.0	0.0	4.91e-06	0.0	0.0	0.0	0.0	-1.83e-04
130	9	0.0	0.0	-0.02	-27.99	0.0	0.0	27.99	0.0	0.0	0.0	0.0	-1539.46
		-1539.46	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	12	7535.54	0.0	0.11	137.01	0.0	0.0	-137.01	0.0	0.0	0.0	0.0	7535.54
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	13	-1.22e-04	0.0	-0.18	-228.74	0.0	0.0	228.74	0.0	0.0	0.0	0.0	-1.258e-04
		-1.258e-04	0.0	0.0	0.0	110.0	0.0	3.29e-06	0.0	0.0	0.0	0.0	-1.22e-04
130	17	0.0	0.0	-0.02	-27.99	0.0	0.0	27.99	0.0	0.0	0.0	0.0	-1539.46
		-1539.46	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	19	0.0	0.0	-0.04	-54.39	0.0	0.0	54.39	0.0	0.0	0.0	0.0	-2991.46
		-2991.46	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	20	275.54	0.0	3.86e-03	5.01	0.0	0.0	-5.01	0.0	0.0	0.0	0.0	275.54
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	21	0.0	0.0	-0.02	-27.99	0.0	0.0	27.99	0.0	0.0	0.0	0.0	-1539.46
		-1539.46	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0	0.0
131	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0	0.0
131	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0	0.0
131	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132	1	2.671e+04	0.0	-0.22	-53.12	0.0	0.0	232.03	0.0	0.0	0.0	0.0	2.671e+04
		0.0	0.0	0.0	0.0	130.0	0.0	178.91	0.0	0.0	0.0	0.0	0.0
132	2	1.314e+05	0.0	-1.08	-53.12	0.0	0.0	1037.16	0.0	0.0	0.0	0.0	1.314e+05
		0.0	0.0	0.0	0.0	130.0	0.0	984.04	0.0	0.0	0.0	0.0	0.0
132	4	0.0	0.0	0.36	-53.12	0.0	0.0	-314.43	0.0	0.0	0.0	0.0	-4.433e+04
		-4.433e+04	0.0	0.0	0.0	130.0	0.0	-367.55	0.0	0.0	0.0	0.0	0.0
132	5	1.655e+05	0.0	-1.35	-53.12	0.0	0.0	1299.46	0.0	0.0	0.0	0.0	1.655e+05
		0.0	0.0	0.0	0.0	130.0	0.0	1246.34	0.0	0.0	0.0	0.0	0.0
132	9	1.992e+04	0.0	-0.17	-40.86	0.0	0.0	173.62	0.0	0.0	0.0	0.0	1.992e+04
		0.0	0.0	0.0	0.0	130.0	0.0	132.76	0.0	0.0	0.0	0.0	0.0
132	10	8.969e+04	0.0	-0.74	-40.86	0.0	0.0	710.38	0.0	0.0	0.0	0.0	8.969e+04
		0.0	0.0	0.0	0.0	130.0	0.0	669.52	0.0	0.0	0.0	0.0	0.0
132	12	0.0	0.0	0.22	-40.86	0.0	0.0	-190.68	0.0	0.0	0.0	0.0	-2.744e+04
		-2.744e+04	0.0	0.0	0.0	130.0	0.0	-231.54	0.0	0.0	0.0	0.0	0.0
132	13	1.124e+05	0.0	-0.92	-40.86	0.0	0.0	885.25	0.0	0.0	0.0	0.0	1.124e+05
		0.0	0.0	0.0	0.0	130.0	0.0	844.39	0.0	0.0	0.0	0.0	0.0
132	17	1.992e+04	0.0	-0.17	-40.86	0.0	0.0	173.62	0.0	0.0	0.0	0.0	1.992e+04
		0.0	0.0	0.0	0.0	130.0	0.0	132.76	0.0	0.0	0.0	0.0	0.0

132	18	3.387e+04	0.0	-0.28	-40.86	0.0	0.0	280.98	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	130.0	0.0	240.11	0.0	0.0	0.0	3.387e+04
132	20	1.044e+04	0.0	-0.09	-40.86	0.0	0.0	100.76	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	130.0	0.0	59.90	0.0	0.0	0.0	1.044e+04
132	21	1.992e+04	0.0	-0.17	-40.86	0.0	0.0	173.62	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	130.0	0.0	132.76	0.0	0.0	0.0	1.992e+04
133	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
133	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
133	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
133	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
133	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
133	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
133	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
133	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
133	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
134	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-6.12e-03	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
134	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+05
		-1.059e+04	0.0	0.03	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
134	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.03	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
134	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-3.07e-03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
134	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.02	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
134	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.02	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
134	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.01	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
134	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.01	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
134	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	6.92e-03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
134	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	9.41e-03	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
135	4	6.222e+04	2.644e+04	-0.13	-30.47	0.0	0.0	582.04	210.39	0.0	-3736.97	-1.147e+04
		-1.147e+04	-3736.97	-0.06	43.51	130.0	0.0	551.57	253.90	0.0	2.644e+04	6.222e+04
135	5	1.199e+04	3.742e+04	0.12	-30.47	0.0	0.0	-576.64	323.55	0.0	-7465.82	1.199e+04
		-6.496e+04	-7465.82	-0.05	43.51	130.0	0.0	-607.11	367.06	0.0	3.742e+04	-6.496e+04
135	6	2.008e+04	4.050e+04	-0.05	-30.47	0.0	0.0	197.10	343.50	0.0	-6979.70	-3563.33
		-3563.33	-6979.70	-0.08	43.51	130.0	0.0	166.63	387.01	0.0	4.050e+04	2.008e+04
135	7	1.552e+04	2.891e+04	0.16	-30.47	0.0	0.0	-756.71	247.39	0.0	-6078.51	1.552e+04
		-8.483e+04	-6078.51	-0.03	43.51	130.0	0.0	-787.18	290.90	0.0	2.891e+04	-8.483e+04
135	12	4.016e+04	1.950e+04	-0.09	-23.44	0.0	0.0	377.76	154.92	0.0	-2811.23	-7421.07
		-7421.07	-2811.23	-0.05	33.47	130.0	0.0	354.33	188.39	0.0	1.950e+04	4.016e+04
135	13	8216.04	2.682e+04	0.08	-23.44	0.0	0.0	-394.69	230.36	0.0	-5297.13	8216.04
		-4.462e+04	-5297.13	-0.03	33.47	130.0	0.0	-418.13	263.83	0.0	2.682e+04	-4.462e+04
135	14	1.207e+04	2.888e+04	-0.03	-23.44	0.0	0.0	121.13	243.66	0.0	-4973.05	-2151.55
		-2151.55	-4973.05	-0.05	33.47	130.0	0.0	97.70	277.13	0.0	2.888e+04	1.207e+04
135	15	1.057e+04	2.115e+04	0.11	-23.44	0.0	0.0	-514.74	179.58	0.0	-4372.25	1.057e+04
		-5.787e+04	-4372.25	-0.02	33.47	130.0	0.0	-538.17	213.06	0.0	2.115e+04	-5.787e+04
135	18	2464.48	1.963e+04	0.02	-23.44	0.0	0.0	-112.97	161.34	0.0	-3519.66	2464.48
		-1.374e+04	-3519.66	-0.03	33.47	130.0	0.0	-136.41	194.81	0.0	1.963e+04	-1.374e+04
135	19	3714.49	1.730e+04	0.03	-23.44	0.0	0.0	-176.27	140.63	0.0	-3159.31	3714.49
		-2.072e+04	-3159.31	-0.02	33.47	130.0	0.0	-199.71	174.11	0.0	1.730e+04	-2.072e+04
135	20	258.62	1.798e+04	-2.58e-03	-23.44	0.0	0.0	-4.33	145.07	0.0	-3051.28	258.62
		-1827.58	-3051.28	-0.03	33.47	130.0	0.0	-27.77	178.54	0.0	1.798e+04	-1827.58
135	21	2178.55	1.760e+04	0.02	-23.44	0.0	0.0	-99.85	142.60	0.0	-3111.30	2178.55
		-1.233e+04	-3111.30	-0.03	33.47	130.0	0.0	-123.29	176.08	0.0	1.760e+04	-1.233e+04
136	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
136	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
136	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
136	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
136	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79

		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0	0.0
136	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0	0.0
136	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137	1	2.915e+04	0.0	-0.06	-53.12	0.0	0.0	44.64	0.0	0.0	0.0	0.0	0.0
		2.671e+04	0.0	0.0	0.0	130.0	0.0	-8.48	0.0	0.0	0.0	0.0	0.0
137	2	1.436e+05	0.0	-0.30	-53.12	0.0	0.0	120.48	0.0	0.0	0.0	0.0	0.0
		1.314e+05	0.0	0.0	0.0	130.0	0.0	67.36	0.0	0.0	0.0	0.0	0.0
137	4	-4.433e+04	0.0	0.10	-53.12	0.0	0.0	-6.82	0.0	0.0	0.0	0.0	0.0
		-4.867e+04	0.0	0.0	0.0	130.0	0.0	-59.93	0.0	0.0	0.0	0.0	0.0
137	5	1.809e+05	0.0	-0.38	-53.12	0.0	0.0	145.18	0.0	0.0	0.0	0.0	0.0
		1.655e+05	0.0	0.0	0.0	130.0	0.0	92.06	0.0	0.0	0.0	0.0	0.0
137	9	2.174e+04	0.0	-0.05	-40.86	0.0	0.0	33.88	0.0	0.0	0.0	0.0	0.0
		1.992e+04	0.0	0.0	0.0	130.0	0.0	-6.98	0.0	0.0	0.0	0.0	0.0
137	10	9.802e+04	0.0	-0.21	-40.86	0.0	0.0	84.44	0.0	0.0	0.0	0.0	0.0
		8.969e+04	0.0	0.0	0.0	130.0	0.0	43.58	0.0	0.0	0.0	0.0	0.0
137	12	-2.744e+04	0.0	0.06	-40.86	0.0	0.0	-0.42	0.0	0.0	0.0	0.0	0.0
		-3.016e+04	0.0	0.0	0.0	130.0	0.0	-41.28	0.0	0.0	0.0	0.0	0.0
137	13	1.229e+05	0.0	-0.26	-40.86	0.0	0.0	100.91	0.0	0.0	0.0	0.0	0.0
		1.124e+05	0.0	0.0	0.0	130.0	0.0	60.05	0.0	0.0	0.0	0.0	0.0
137	17	2.174e+04	0.0	-0.05	-40.86	0.0	0.0	33.88	0.0	0.0	0.0	0.0	0.0
		1.992e+04	0.0	0.0	0.0	130.0	0.0	-6.98	0.0	0.0	0.0	0.0	0.0
137	18	3.693e+04	0.0	-0.08	-40.86	0.0	0.0	43.99	0.0	0.0	0.0	0.0	0.0
		3.387e+04	0.0	0.0	0.0	130.0	0.0	3.13	0.0	0.0	0.0	0.0	0.0
137	20	1.160e+04	0.0	-0.02	-40.86	0.0	0.0	27.02	0.0	0.0	0.0	0.0	0.0
		1.044e+04	0.0	0.0	0.0	130.0	0.0	-13.84	0.0	0.0	0.0	0.0	0.0
137	21	2.174e+04	0.0	-0.05	-40.86	0.0	0.0	33.88	0.0	0.0	0.0	0.0	0.0
		1.992e+04	0.0	0.0	0.0	130.0	0.0	-6.98	0.0	0.0	0.0	0.0	0.0
138	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	0.0	0.0
138	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0	0.0
138	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0	0.0
138	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	0.0
138	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0	0.0
138	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0	0.0
138	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	0.0
138	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	0.0	0.0
138	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	0.0
139	3	0.0	0.0	-0.64	-219.69	0.0	3.20e-04	4.43e-05	0.0	0.0	0.0	0.0	0.0
		-1.208e+04	0.0	0.09	0.0	110.0	0.0	30.98	-219.69	0.0	0.0	0.0	0.0
139	4	1.242e+04	0.0	0.84	225.81	0.0	-3.28e-04	4.43e-05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.29	0.0	110.0	0.0	30.98	225.81	0.0	0.0	0.0	0.0
139	5	-1.14e-05	0.0	-0.37	-158.13	0.0	2.32e-04	8.08e-05	0.0	0.0	0.0	0.0	0.0
		-8697.29	0.0	0.24	0.0	110.0	0.0	56.17	-158.13	0.0	0.0	0.0	0.0
139	7	-5.72e-06	0.0	-0.64	-228.51	0.0	3.33e-04	6.25e-05	0.0	0.0	0.0	0.0	0.0
		-1.257e+04	0.0	0.15	0.0	110.0	0.0	43.58	-228.51	0.0	0.0	0.0	0.0
139	8	1.193e+04	0.0	0.85	216.99	0.0	-3.14e-04	6.25e-05	0.0	0.0	0.0	0.0	0.0
		-5.72e-06	0.0	0.34	0.0	110.0	0.0	43.58	216.99	0.0	0.0	0.0	0.0
139	11	0.0	0.0	-0.43	-148.05	0.0	2.15e-04	3.28e-05	0.0	0.0	0.0	0.0	0.0
		-8142.98	0.0	0.08	0.0	110.0	0.0	22.93	-148.05	0.0	0.0	0.0	0.0
139	12	8191.99	0.0	0.56	148.95	0.0	-2.16e-04	3.28e-05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.20	0.0	110.0	0.0	22.93	148.95	0.0	0.0	0.0	0.0
139	13	-7.63e-06	0.0	-0.24	-107.02	0.0	1.57e-04	5.71e-05	0.0	0.0	0.0	0.0	0.0
		-5885.85	0.0	0.17	0.0	110.0	0.0	39.73	-107.02	0.0	0.0	0.0	0.0
139	15	-3.81e-06	0.0	-0.42	-153.94	0.0	2.25e-04	4.49e-05	0.0	0.0	0.0	0.0	0.0
		-8466.41	0.0	0.11	0.0	110.0	0.0	31.33	-153.94	0.0	0.0	0.0	0.0
139	16	7868.55	0.0	0.57	143.06	0.0	-2.07e-04	4.49e-05	0.0	0.0	0.0	0.0	0.0
		-3.81e-06	0.0	0.24	0.0	110.0	0.0	31.33	143.06	0.0	0.0	0.0	0.0
139	18	-1.53e-06	0.0	0.01	-18.41	0.0	2.70e-05	3.76e-05	0.0	0.0	0.0	0.0	0.0
		-1012.37	0.0	0.15	0.0	110.0	0.0	26.29	-18.41	0.0	0.0	0.0	0.0
139	19	0.0	0.0	-0.08	-42.45	0.0	6.18e-05	3.28e-05	0.0	0.0	0.0	0.0	0.0
		-2334.99	0.0	0.12	0.0	110.0	0.0	22.93	-42.45	0.0	0.0	0.0	0.0
139	20	932.00	0.0	0.12	16.95	0.0	-2.46e-05	3.28e-05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.15	0.0	110.0	0.0	22.93	16.95	0.0	0.0	0.0	0.0

139	21	0.0	0.0	0.01	-16.05	0.0	2.34e-05	3.28e-05	0.0	0.0	0.0	0.0
		-882.99	0.0	0.13	0.0	110.0	22.93	-16.05	0.0	0.0	0.0	-882.99
140	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	0.03	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
140	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.21	0.0	110.0	54.99	208.99	0.0	0.0	0.0	0.0
140	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.13	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
140	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.06	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
140	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	0.0
		-1.14e-05	0.0	0.25	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
140	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	0.03	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
140	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.15	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
140	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.10	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
140	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.05	0.0	110.0	47.30	-172.12	0.0	0.0	0.0	-9466.52
140	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	0.17	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
140	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.09	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
140	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.07	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
140	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.09	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
140	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.08	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
141	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
141	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
141	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
141	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
141	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
141	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
141	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
141	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
141	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
142	1	2.906e+04	0.0	0.13	-53.12	0.0	0.0	-142.74	0.0	0.0	0.0	2.906e+04
		7052.05	0.0	0.0	0.0	130.0	0.0	-195.86	0.0	0.0	0.0	7052.05
142	2	1.436e+05	0.0	0.61	-53.12	0.0	0.0	-796.20	0.0	0.0	0.0	1.436e+05
		3.663e+04	0.0	0.0	0.0	130.0	0.0	-849.32	0.0	0.0	0.0	3.663e+04
142	4	-1.302e+04	0.0	-0.20	-53.12	0.0	0.0	300.80	0.0	0.0	0.0	-4.867e+04
		-4.867e+04	0.0	0.0	0.0	130.0	0.0	247.68	0.0	0.0	0.0	-1.302e+04
142	5	1.809e+05	0.0	0.77	-53.12	0.0	0.0	-1009.10	0.0	0.0	0.0	1.809e+05
		4.626e+04	0.0	0.0	0.0	130.0	0.0	-1062.22	0.0	0.0	0.0	4.626e+04
142	9	2.166e+04	0.0	0.09	-40.86	0.0	0.0	-105.86	0.0	0.0	0.0	2.166e+04
		5246.21	0.0	0.0	0.0	130.0	0.0	-146.72	0.0	0.0	0.0	5246.21
142	10	9.802e+04	0.0	0.42	-40.86	0.0	0.0	-541.50	0.0	0.0	0.0	9.802e+04
		2.496e+04	0.0	0.0	0.0	130.0	0.0	-582.36	0.0	0.0	0.0	2.496e+04
142	12	-8132.75	0.0	-0.13	-40.86	0.0	0.0	189.84	0.0	0.0	0.0	-3.016e+04
		-3.016e+04	0.0	0.0	0.0	130.0	0.0	148.98	0.0	0.0	0.0	-8132.75
142	13	1.229e+05	0.0	0.52	-40.86	0.0	0.0	-683.43	0.0	0.0	0.0	1.229e+05
		3.139e+04	0.0	0.0	0.0	130.0	0.0	-724.29	0.0	0.0	0.0	3.139e+04
142	17	2.166e+04	0.0	0.09	-40.86	0.0	0.0	-105.86	0.0	0.0	0.0	2.166e+04
		5246.21	0.0	0.0	0.0	130.0	0.0	-146.72	0.0	0.0	0.0	5246.21
142	18	3.693e+04	0.0	0.16	-40.86	0.0	0.0	-192.99	0.0	0.0	0.0	3.693e+04
		9189.80	0.0	0.0	0.0	130.0	0.0	-233.85	0.0	0.0	0.0	9189.80
142	20	1.130e+04	0.0	0.05	-40.86	0.0	0.0	-46.72	0.0	0.0	0.0	1.130e+04
		2570.42	0.0	0.0	0.0	130.0	0.0	-87.58	0.0	0.0	0.0	2570.42
142	21	2.166e+04	0.0	0.09	-40.86	0.0	0.0	-105.86	0.0	0.0	0.0	2.166e+04
		5246.21	0.0	0.0	0.0	130.0	0.0	-146.72	0.0	0.0	0.0	5246.21
143	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
143	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
143	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
143	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
143	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0
143	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
143	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
143	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
143	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
144	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
144	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.24	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-1.059e+04
144	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.22	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.398e+04
144	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.05	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
144	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.17	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-7209.40
144	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.15	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-9466.52
144	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.10	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-1818.41
144	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.10	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	-3011.66
144	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.08	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
144	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.09	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	-1559.66
145	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.04	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
145	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.08	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-1.059e+04
145	6	4109.08	0.0	0.67	74.71	0.0	-105.38	-74.71	0.0	0.0	0.0	4109.08
		-2.29e-05	0.0	-0.08	0.0	110.0	1.04e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
145	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.07	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.398e+04
145	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.03	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
145	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.06	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-7209.40
145	14	2591.58	0.0	0.44	47.12	0.0	-74.09	-47.12	0.0	0.0	0.0	2591.58
		-1.53e-05	0.0	-0.05	0.0	110.0	6.57e-05	-1.09e-04	0.0	0.0	0.0	-1.53e-05
145	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.05	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-9466.52
145	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.04	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-1818.41
145	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	-3011.66
145	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
145	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	-1559.66
146	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	-3692.27
146	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
146	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	-3.028e+04
146	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	-2719.21
146	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
146	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	-2.045e+04
146	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	-2719.21
146	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	-5393.31
146	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	-2719.21
147	1	7052.05	0.0	0.15	-53.12	0.0	0.0	-330.13	0.0	0.0	0.0	7052.05
		-3.932e+04	0.0	0.0	0.0	130.0	0.0	-383.24	0.0	0.0	0.0	-3.932e+04

147	2	3.663e+04	0.0	0.74	-53.12	0.0	0.0	-1712.89	0.0	0.0	0.0	3.663e+04
		-1.895e+05	0.0	0.0	0.0	130.0	0.0	-1766.01	0.0	0.0	0.0	0.0-1.895e+05
147	4	6.263e+04	0.0	-0.24	-53.12	0.0	0.0	608.42	0.0	0.0	0.0	0.0-1.302e+04
		-1.302e+04	0.0	0.0	0.0	130.0	0.0	555.30	0.0	0.0	0.0	0.0 6.263e+04
147	5	4.626e+04	0.0	0.93	-53.12	0.0	0.0	-2163.39	0.0	0.0	0.0	0.0 4.626e+04
		-2.384e+05	0.0	0.0	0.0	130.0	0.0	-2216.51	0.0	0.0	0.0	0.0-2.384e+05
147	9	5246.21	0.0	0.11	-40.86	0.0	0.0	-245.60	0.0	0.0	0.0	0.0 5246.21
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	-286.46	0.0	0.0	0.0	0.0-2.934e+04
147	10	2.496e+04	0.0	0.50	-40.86	0.0	0.0	-1167.44	0.0	0.0	0.0	0.0 2.496e+04
		-1.295e+05	0.0	0.0	0.0	130.0	0.0	-1208.30	0.0	0.0	0.0	0.0-1.295e+05
147	12	3.862e+04	0.0	-0.15	-40.86	0.0	0.0	380.09	0.0	0.0	0.0	0.0 -8132.75
		-8132.75	0.0	0.0	0.0	130.0	0.0	339.23	0.0	0.0	0.0	0.0 3.862e+04
147	13	3.139e+04	0.0	0.63	-40.86	0.0	0.0	-1467.77	0.0	0.0	0.0	0.0 3.139e+04
		-1.621e+05	0.0	0.0	0.0	130.0	0.0	-1508.64	0.0	0.0	0.0	0.0-1.621e+05
147	17	5246.21	0.0	0.11	-40.86	0.0	0.0	-245.60	0.0	0.0	0.0	0.0 5246.21
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	-286.46	0.0	0.0	0.0	0.0-2.934e+04
147	18	9189.80	0.0	0.19	-40.86	0.0	0.0	-429.97	0.0	0.0	0.0	0.0 9189.80
		-4.936e+04	0.0	0.0	0.0	130.0	0.0	-470.83	0.0	0.0	0.0	0.0-4.936e+04
147	20	2570.42	0.0	0.06	-40.86	0.0	0.0	-120.46	0.0	0.0	0.0	0.0 2570.42
		-1.575e+04	0.0	0.0	0.0	130.0	0.0	-161.32	0.0	0.0	0.0	0.0-1.575e+04
147	21	5246.21	0.0	0.11	-40.86	0.0	0.0	-245.60	0.0	0.0	0.0	0.0 5246.21
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	-286.46	0.0	0.0	0.0	0.0-2.934e+04
148	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	0.0 -3692.27
148	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0 9920.23
148	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0-3.028e+04
148	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0 -2719.21
148	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0 6355.79
148	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0-2.045e+04
148	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0 -2719.21
148	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	0.0 -5393.31
148	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0 -2719.21
149	3	4.296e+04	3603.50	0.11	-30.47	0.0	0.0	-268.97	86.34	0.0	0.0-1.045e+04	4.296e+04
		6011.09	-1.045e+04	-0.06	43.51	130.0	0.0	-299.44	129.85	0.0	0.0 3603.50	6011.09
149	4	-7704.40	-4232.26	-0.08	-30.47	0.0	0.0	223.47	53.09	0.0	0.0-1.396e+04	-3.477e+04
		-3.477e+04	-1.396e+04	-0.02	43.51	130.0	0.0	193.00	96.60	0.0	0.0 -4232.26	-7704.40
149	6	-4455.71	-2777.76	-0.02	-30.47	0.0	0.0	71.28	121.54	0.0	0.0-2.141e+04	-1.174e+04
		-1.174e+04	-2.141e+04	-0.06	43.51	130.0	0.0	40.81	165.06	0.0	0.0 -2777.76	-4455.71
149	7	4.584e+04	3460.11	0.12	-30.47	0.0	0.0	-290.35	116.87	0.0	0.0-1.456e+04	4.584e+04
		6111.49	-1.456e+04	-0.07	43.51	130.0	0.0	-320.82	160.39	0.0	0.0 3460.11	6111.49
149	11	2.929e+04	2424.99	0.08	-23.44	0.0	0.0	-182.92	62.72	0.0	0.0 -7903.71	2.929e+04
		3991.53	-7903.71	-0.04	33.47	130.0	0.0	-206.36	96.19	0.0	0.0 2424.99	3991.53
149	12	-5152.14	-2798.85	-0.05	-23.44	0.0	0.0	145.37	40.55	0.0	0.0-1.025e+04	-2.253e+04
		-2.253e+04	-1.025e+04	-0.02	33.47	130.0	0.0	121.93	74.02	0.0	0.0 -2798.85	-5152.14
149	14	-2986.34	-1829.18	-7.92e-03	-23.44	0.0	0.0	43.91	86.18	0.0	0.0-1.521e+04	-7171.11
		-7171.11	-1.521e+04	-0.04	33.47	130.0	0.0	20.47	119.66	0.0	0.0 -1829.18	-2986.34
149	15	3.121e+04	2329.40	0.08	-23.44	0.0	0.0	-197.18	83.07	0.0	0.0-1.065e+04	3.121e+04
		4058.46	-1.065e+04	-0.05	33.47	130.0	0.0	-220.61	116.54	0.0	0.0 2329.40	4058.46
149	18	7030.94	65.05	0.02	-23.44	0.0	0.0	-42.72	61.01	0.0	0.0-1.004e+04	7030.94
		-45.55	-1.004e+04	-0.03	33.47	130.0	0.0	-66.15	94.48	0.0	0.0 65.05	-45.55
149	19	1.087e+04	567.63	0.03	-23.44	0.0	0.0	-66.20	54.83	0.0	0.0 -8736.35	1.087e+04
		740.45	-8736.35	-0.03	33.47	130.0	0.0	-89.63	88.30	0.0	0.0 567.63	740.45
149	20	505.06	-477.14	7.28e-03	-23.44	0.0	0.0	-0.54	50.40	0.0	0.0 -9204.72	505.06
		-1088.29	-9204.72	-0.03	33.47	130.0	0.0	-23.97	83.87	0.0	0.0 -477.14	-1088.29
149	21	6263.00	103.29	0.02	-23.44	0.0	0.0	-37.01	52.86	0.0	0.0 -8944.51	6263.00
		-72.32	-8944.51	-0.03	33.47	130.0	0.0	-60.45	86.33	0.0	0.0 103.29	-72.32
151	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	0.0 -3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
151	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	0.0 9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
151	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0 0.0
151	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0 -2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
151	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	0.0 6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
151	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0 0.0
151	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0 -2719.21

		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
151	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
151	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
152	1	-147.64	0.0	-0.02	-53.12	0.0	0.0	327.86	0.0	0.0	0.0	-3.932e+04
		-3.932e+04	0.0	0.0	0.0	130.0	0.0	274.74	0.0	0.0	0.0	-147.64
152	2	1927.58	0.0	-0.12	-53.12	0.0	0.0	1499.07	0.0	0.0	0.0	-1.895e+05
		-1.895e+05	0.0	0.0	0.0	130.0	0.0	1445.95	0.0	0.0	0.0	1927.58
152	4	6.263e+04	0.0	0.04	-53.12	0.0	0.0	-467.10	0.0	0.0	0.0	6.263e+04
		-1550.32	0.0	0.0	0.0	130.0	0.0	-520.22	0.0	0.0	0.0	-1550.32
152	5	2600.87	0.0	-0.15	-53.12	0.0	0.0	1880.65	0.0	0.0	0.0	-2.384e+05
		-2.384e+05	0.0	0.0	0.0	130.0	0.0	1827.53	0.0	0.0	0.0	2600.87
152	9	-126.09	0.0	-0.02	-40.86	0.0	0.0	245.14	0.0	0.0	0.0	-2.934e+04
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	204.27	0.0	0.0	0.0	-126.09
152	10	1257.39	0.0	-0.08	-40.86	0.0	0.0	1025.94	0.0	0.0	0.0	-1.295e+05
		-1.295e+05	0.0	0.0	0.0	130.0	0.0	985.08	0.0	0.0	0.0	1257.39
152	12	3.862e+04	0.0	0.03	-40.86	0.0	0.0	-284.84	0.0	0.0	0.0	3.862e+04
		-1061.21	0.0	0.0	0.0	130.0	0.0	-325.70	0.0	0.0	0.0	-1061.21
152	13	1706.25	0.0	-0.10	-40.86	0.0	0.0	1280.33	0.0	0.0	0.0	-1.621e+05
		-1.621e+05	0.0	0.0	0.0	130.0	0.0	1239.47	0.0	0.0	0.0	1706.25
152	17	-126.09	0.0	-0.02	-40.86	0.0	0.0	245.14	0.0	0.0	0.0	-2.934e+04
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	204.27	0.0	0.0	0.0	-126.09
152	18	150.61	0.0	-0.03	-40.86	0.0	0.0	401.30	0.0	0.0	0.0	-4.936e+04
		-4.936e+04	0.0	0.0	0.0	130.0	0.0	360.44	0.0	0.0	0.0	150.61
152	20	-313.11	0.0	-8.88e-03	-40.86	0.0	0.0	139.14	0.0	0.0	0.0	-1.575e+04
		-1.575e+04	0.0	0.0	0.0	130.0	0.0	98.28	0.0	0.0	0.0	-313.11
152	21	-126.09	0.0	-0.02	-40.86	0.0	0.0	245.14	0.0	0.0	0.0	-2.934e+04
		-2.934e+04	0.0	0.0	0.0	130.0	0.0	204.27	0.0	0.0	0.0	-126.09
153	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
153	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
153	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
153	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
153	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
153	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
153	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
153	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
153	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
154	4	1.242e+04	0.0	1.19	225.81	0.0	-30.98	-225.81	0.0	0.0	0.0	1.242e+04
		0.0	0.0	0.29	0.0	110.0	3.28e-04	-4.62e-05	0.0	0.0	0.0	0.0
154	5	-1.14e-05	0.0	-0.61	-158.13	0.0	-56.17	158.13	0.0	0.0	0.0	-8697.29
		-8697.29	0.0	0.24	0.0	110.0	-2.32e-04	-8.23e-05	0.0	0.0	0.0	-1.14e-05
154	6	6004.17	0.0	0.69	109.17	0.0	-56.17	-109.17	0.0	0.0	0.0	6004.17
		-1.14e-05	0.0	0.36	0.0	110.0	1.56e-04	-8.23e-05	0.0	0.0	0.0	-1.14e-05
154	7	-5.72e-06	0.0	-0.99	-228.51	0.0	-43.58	228.51	0.0	0.0	0.0	-5.72e-06
		-1.257e+04	0.0	0.15	0.0	110.0	-3.34e-04	-6.43e-05	0.0	0.0	0.0	-1.257e+04
154	12	8191.99	0.0	0.79	148.95	0.0	-22.93	-148.95	0.0	0.0	0.0	8191.99
		0.0	0.0	0.20	0.0	110.0	2.16e-04	-3.42e-05	0.0	0.0	0.0	0.0
154	13	-7.63e-06	0.0	-0.41	-107.02	0.0	-39.73	107.02	0.0	0.0	0.0	-5885.85
		-5885.85	0.0	0.17	0.0	110.0	-1.57e-04	-5.83e-05	0.0	0.0	0.0	-7.63e-06
154	14	3915.12	0.0	0.46	71.18	0.0	-39.73	-71.18	0.0	0.0	0.0	3915.12
		-7.63e-06	0.0	0.25	0.0	110.0	1.02e-04	-5.83e-05	0.0	0.0	0.0	-7.63e-06
154	15	-3.81e-06	0.0	-0.66	-153.94	0.0	-31.33	153.94	0.0	0.0	0.0	-8466.41
		-8466.41	0.0	0.11	0.0	110.0	-2.25e-04	-4.62e-05	0.0	0.0	0.0	-3.81e-06
154	18	-1.53e-06	0.0	-0.01	-18.41	0.0	-26.29	18.41	0.0	0.0	0.0	-1012.37
		-1012.37	0.0	0.15	0.0	110.0	-2.74e-05	-3.90e-05	0.0	0.0	0.0	-1.53e-06
154	19	0.0	0.0	-0.14	-42.45	0.0	-22.93	42.45	0.0	0.0	0.0	-2334.99
		-2334.99	0.0	0.12	0.0	110.0	-6.22e-05	-3.42e-05	0.0	0.0	0.0	0.0
154	20	932.00	0.0	0.15	16.95	0.0	-22.93	-16.95	0.0	0.0	0.0	932.00
		0.0	0.0	0.15	0.0	110.0	2.42e-05	-3.42e-05	0.0	0.0	0.0	0.0
154	21	0.0	0.0	-0.01	-16.05	0.0	-22.93	16.05	0.0	0.0	0.0	-882.99
		-882.99	0.0	0.13	0.0	110.0	-2.38e-05	-3.42e-05	0.0	0.0	0.0	0.0
155	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.21	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
155	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	0.13	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	-2.29e-05
155	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.06	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05

155	8	1.052e+04	0.0	1.16	191.35	0.0	-80.19	-191.35	0.0	0.0	0.0	1.052e+04
		-1.14e-05	0.0	0.25	0.0	110.0	2.76e-04	-1.18e-04	0.0	0.0	0.0	-1.14e-05
155	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.15	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
155	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.10	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	-1.53e-05
155	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.05	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
155	16	6868.44	0.0	0.77	124.88	0.0	-57.30	-124.88	0.0	0.0	0.0	6868.44
		-7.63e-06	0.0	0.17	0.0	110.0	1.80e-04	-8.45e-05	0.0	0.0	0.0	-7.63e-06
155	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.09	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	-3.05e-06
155	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.07	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
155	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	0.09	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
155	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.08	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
156	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
156	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
156	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
156	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
156	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
156	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
156	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
156	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
156	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
157	1	1.466e+04	0.0	-0.05	-53.12	0.0	0.0	140.48	0.0	0.0	0.0	-147.64
		-147.64	0.0	0.0	0.0	130.0	0.0	87.36	0.0	0.0	0.0	1.466e+04
157	2	7.419e+04	0.0	-0.24	-53.12	0.0	0.0	582.39	0.0	0.0	0.0	1927.58
		1927.58	0.0	0.0	0.0	130.0	0.0	529.27	0.0	0.0	0.0	7.419e+04
157	4	-1550.32	0.0	0.08	-53.12	0.0	0.0	-159.48	0.0	0.0	0.0	-1550.32
		-2.574e+04	0.0	0.0	0.0	130.0	0.0	-212.60	0.0	0.0	0.0	-2.574e+04
157	5	9.358e+04	0.0	-0.30	-53.12	0.0	0.0	726.37	0.0	0.0	0.0	2600.87
		2600.87	0.0	0.0	0.0	130.0	0.0	673.25	0.0	0.0	0.0	9.358e+04
157	9	1.092e+04	0.0	-0.04	-40.86	0.0	0.0	105.39	0.0	0.0	0.0	-126.09
		-126.09	0.0	0.0	0.0	130.0	0.0	64.53	0.0	0.0	0.0	1.092e+04
157	10	5.060e+04	0.0	-0.16	-40.86	0.0	0.0	400.00	0.0	0.0	0.0	1257.39
		1257.39	0.0	0.0	0.0	130.0	0.0	359.14	0.0	0.0	0.0	5.060e+04
157	12	-1061.21	0.0	0.05	-40.86	0.0	0.0	-94.58	0.0	0.0	0.0	-1061.21
		-1.601e+04	0.0	0.0	0.0	130.0	0.0	-135.44	0.0	0.0	0.0	-1.601e+04
157	13	6.353e+04	0.0	-0.21	-40.86	0.0	0.0	495.99	0.0	0.0	0.0	1706.25
		1706.25	0.0	0.0	0.0	130.0	0.0	455.13	0.0	0.0	0.0	6.353e+04
157	17	1.092e+04	0.0	-0.04	-40.86	0.0	0.0	105.39	0.0	0.0	0.0	-126.09
		-126.09	0.0	0.0	0.0	130.0	0.0	64.53	0.0	0.0	0.0	1.092e+04
157	18	1.886e+04	0.0	-0.06	-40.86	0.0	0.0	164.32	0.0	0.0	0.0	150.61
		150.61	0.0	0.0	0.0	130.0	0.0	123.45	0.0	0.0	0.0	1.886e+04
157	20	5532.90	0.0	-0.02	-40.86	0.0	0.0	65.40	0.0	0.0	0.0	-313.11
		-313.11	0.0	0.0	0.0	130.0	0.0	24.54	0.0	0.0	0.0	5532.90
157	21	1.092e+04	0.0	-0.04	-40.86	0.0	0.0	105.39	0.0	0.0	0.0	-126.09
		-126.09	0.0	0.0	0.0	130.0	0.0	64.53	0.0	0.0	0.0	1.092e+04
158	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
158	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
158	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
158	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
158	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
158	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
158	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
158	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
158	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
161	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
161	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
161	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
161	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
161	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
161	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
161	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
161	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
161	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
162	1	1.466e+04	0.0	0.03	-53.12	0.0	0.0	-46.90	0.0	0.0	0.0	0.0 1.466e+04
		5111.47	0.0	0.0	0.0	130.0	0.0	-100.02	0.0	0.0	0.0	5111.47
162	2	7.419e+04	0.0	0.15	-53.12	0.0	0.0	-334.29	0.0	0.0	0.0	0.0 7.419e+04
		2.727e+04	0.0	0.0	0.0	130.0	0.0	-387.41	0.0	0.0	0.0	0.0 2.727e+04
162	4	-9930.76	0.0	-0.05	-53.12	0.0	0.0	148.14	0.0	0.0	0.0	0.0-2.574e+04
		-2.574e+04	0.0	0.0	0.0	130.0	0.0	95.02	0.0	0.0	0.0	0.0 -9930.76
162	5	9.358e+04	0.0	0.19	-53.12	0.0	0.0	-427.91	0.0	0.0	0.0	0.0 9.358e+04
		3.449e+04	0.0	0.0	0.0	130.0	0.0	-481.03	0.0	0.0	0.0	0.0 3.449e+04
162	9	1.092e+04	0.0	0.02	-40.86	0.0	0.0	-34.35	0.0	0.0	0.0	0.0 1.092e+04
		3798.19	0.0	0.0	0.0	130.0	0.0	-75.21	0.0	0.0	0.0	0.0 3798.19
162	10	5.060e+04	0.0	0.10	-40.86	0.0	0.0	-225.94	0.0	0.0	0.0	0.0 5.060e+04
		1.857e+04	0.0	0.0	0.0	130.0	0.0	-266.80	0.0	0.0	0.0	0.0 1.857e+04
162	12	-6229.96	0.0	-0.03	-40.86	0.0	0.0	95.68	0.0	0.0	0.0	0.0-1.601e+04
		-1.601e+04	0.0	0.0	0.0	130.0	0.0	54.82	0.0	0.0	0.0	0.0 -6229.96
162	13	6.353e+04	0.0	0.13	-40.86	0.0	0.0	-288.35	0.0	0.0	0.0	0.0 6.353e+04
		2.339e+04	0.0	0.0	0.0	130.0	0.0	-329.21	0.0	0.0	0.0	0.0 2.339e+04
162	17	1.092e+04	0.0	0.02	-40.86	0.0	0.0	-34.35	0.0	0.0	0.0	0.0 1.092e+04
		3798.19	0.0	0.0	0.0	130.0	0.0	-75.21	0.0	0.0	0.0	0.0 3798.19
162	18	1.886e+04	0.0	0.04	-40.86	0.0	0.0	-72.67	0.0	0.0	0.0	0.0 1.886e+04
		6753.24	0.0	0.0	0.0	130.0	0.0	-113.53	0.0	0.0	0.0	0.0 6753.24
162	20	5532.90	0.0	0.01	-40.86	0.0	0.0	-8.34	0.0	0.0	0.0	0.0 5532.90
		1792.56	0.0	0.0	0.0	130.0	0.0	-49.20	0.0	0.0	0.0	0.0 1792.56
162	21	1.092e+04	0.0	0.02	-40.86	0.0	0.0	-34.35	0.0	0.0	0.0	0.0 1.092e+04
		3798.19	0.0	0.0	0.0	130.0	0.0	-75.21	0.0	0.0	0.0	0.0 3798.19
163	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
163	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
163	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0-3.028e+04
163	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
163	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
163	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0-2.045e+04
163	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
163	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
163	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
164	4	237.88	166.57	0.63	-30.47	0.0	0.0	-432.33	-203.34	0.0	166.57	237.88
		-5.795e+04	-2.344e+04	0.31	43.51	130.0	0.0	-462.80	-159.82	0.0	-2.344e+04	-5.795e+04
164	6	142.73	99.94	0.25	-30.47	0.0	0.0	-128.26	-309.29	0.0	99.94	142.73
		-1.851e+04	-3.728e+04	0.38	43.51	130.0	0.0	-158.73	-265.78	0.0	-3.728e+04	-1.851e+04
164	7	7.900e+04	-133.25	-0.78	-30.47	0.0	0.0	624.37	-235.08	0.0	-133.25	-190.31
		-190.31	-2.786e+04	0.14	43.51	130.0	0.0	593.90	-191.56	0.0	-2.786e+04	7.900e+04
164	8	237.88	166.57	0.59	-30.47	0.0	0.0	-393.38	-258.97	0.0	166.57	237.88
		-5.288e+04	-3.067e+04	0.37	43.51	130.0	0.0	-423.85	-215.46	0.0	-3.067e+04	-5.288e+04
164	12	158.59	111.04	0.41	-23.44	0.0	0.0	-277.36	-151.07	0.0	111.04	158.59
		-3.742e+04	-1.735e+04	0.22	33.47	130.0	0.0	-300.79	-117.60	0.0	-1.735e+04	-3.742e+04
164	14	95.15	66.63	0.15	-23.44	0.0	0.0	-74.64	-221.71	0.0	66.63	95.15
		-1.113e+04	-2.658e+04	0.27	33.47	130.0	0.0	-98.08	-188.24	0.0	-2.658e+04	-1.113e+04
164	15	5.387e+04	-88.84	-0.53	-23.44	0.0	0.0	427.11	-172.23	0.0	-88.84	-126.87
		-126.87	-2.030e+04	0.11	33.47	130.0	0.0	403.67	-138.76	0.0	-2.030e+04	5.387e+04
164	16	158.59	111.04	0.38	-23.44	0.0	0.0	-251.39	-188.16	0.0	111.04	158.59
		-3.405e+04	-2.217e+04	0.26	33.47	130.0	0.0	-274.83	-154.69	0.0	-2.217e+04	-3.405e+04

164	18	1.277e+04	-3.36e-04	-0.11	-23.44	0.0	0.0	109.97	-157.06	0.0	-3.36e-04	-4.73e-04
		-4.73e-04	-1.824e+04	0.15	33.47	130.0	0.0	86.54	-123.59	0.0	-1.824e+04	1.277e+04
164	19	1.924e+04	-17.77	-0.18	-23.44	0.0	0.0	159.90	-140.81	0.0	-17.77	-25.37
		-25.37	-1.615e+04	0.12	33.47	130.0	0.0	136.46	-107.34	0.0	-1.615e+04	1.924e+04
164	20	1653.99	22.21	6.10e-03	-23.44	0.0	0.0	24.20	-143.99	0.0	22.21	31.72
		31.72	-1.652e+04	0.15	33.47	130.0	0.0	0.76	-110.52	0.0	-1.652e+04	1653.99
164	21	1.142e+04	-3.36e-04	-0.10	-23.44	0.0	0.0	99.59	-142.22	0.0	-3.36e-04	-4.73e-04
		-4.73e-04	-1.631e+04	0.14	33.47	130.0	0.0	76.15	-108.75	0.0	-1.631e+04	1.142e+04
165	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	-0.10	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
165	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
165	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.10	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
165	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.11	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
165	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	0.05	0.0	110.0	80.19	191.35	0.0	0.0	0.0	1.052e+04
165	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.04	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
165	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.07	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
165	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.08	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
165	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	0.03	0.0	110.0	57.30	124.88	0.0	0.0	0.0	6868.44
165	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.03	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
165	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.03	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
165	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.01	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
165	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.02	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
166	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
166	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
166	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
166	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
166	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
166	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
166	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
166	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
166	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
167	1	5111.47	0.0	0.04	-53.12	0.0	0.0	-234.29	0.0	0.0	0.0	5111.47
		-2.880e+04	0.0	0.0	0.0	130.0	0.0	-287.41	0.0	0.0	0.0	-2.880e+04
167	2	2.727e+04	0.0	0.21	-53.12	0.0	0.0	-1250.98	0.0	0.0	0.0	2.727e+04
		-1.388e+05	0.0	0.0	0.0	130.0	0.0	-1304.10	0.0	0.0	0.0	-1.388e+05
167	4	4.586e+04	0.0	-0.07	-53.12	0.0	0.0	455.75	0.0	0.0	0.0	-9930.76
		-9930.76	0.0	0.0	0.0	130.0	0.0	402.63	0.0	0.0	0.0	4.586e+04
167	5	3.449e+04	0.0	0.27	-53.12	0.0	0.0	-1582.20	0.0	0.0	0.0	3.449e+04
		-1.746e+05	0.0	0.0	0.0	130.0	0.0	-1635.32	0.0	0.0	0.0	-1.746e+05
167	9	3798.19	0.0	0.03	-40.86	0.0	0.0	-174.09	0.0	0.0	0.0	3798.19
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	-214.95	0.0	0.0	0.0	-2.149e+04
167	10	1.857e+04	0.0	0.14	-40.86	0.0	0.0	-851.88	0.0	0.0	0.0	1.857e+04
		-9.483e+04	0.0	0.0	0.0	130.0	0.0	-892.74	0.0	0.0	0.0	-9.483e+04
167	12	2.829e+04	0.0	-0.04	-40.86	0.0	0.0	285.94	0.0	0.0	0.0	-6229.96
		-6229.96	0.0	0.0	0.0	130.0	0.0	245.08	0.0	0.0	0.0	2.829e+04
167	13	2.339e+04	0.0	0.18	-40.86	0.0	0.0	-1072.69	0.0	0.0	0.0	2.339e+04
		-1.187e+05	0.0	0.0	0.0	130.0	0.0	-1113.55	0.0	0.0	0.0	-1.187e+05
167	17	3798.19	0.0	0.03	-40.86	0.0	0.0	-174.09	0.0	0.0	0.0	3798.19
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	-214.95	0.0	0.0	0.0	-2.149e+04
167	18	6753.24	0.0	0.05	-40.86	0.0	0.0	-309.65	0.0	0.0	0.0	6753.24
		-3.616e+04	0.0	0.0	0.0	130.0	0.0	-350.51	0.0	0.0	0.0	-3.616e+04
167	20	1792.56	0.0	0.02	-40.86	0.0	0.0	-82.08	0.0	0.0	0.0	1792.56
		-1.153e+04	0.0	0.0	0.0	130.0	0.0	-122.94	0.0	0.0	0.0	-1.153e+04
167	21	3798.19	0.0	0.03	-40.86	0.0	0.0	-174.09	0.0	0.0	0.0	3798.19
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	-214.95	0.0	0.0	0.0	-2.149e+04
168	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0

168	4	-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
		9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
168	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
168	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
168	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
168	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
168	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
168	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
168	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
171	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
171	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
171	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
171	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
171	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
171	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
171	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
171	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
171	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
172	1	7025.82	0.0	-0.08	-53.12	0.0	0.0	302.13	0.0	0.0	0.0	-2.880e+04
		-2.880e+04	0.0	0.0	0.0	130.0	0.0	249.01	0.0	0.0	0.0	7025.82
172	2	3.650e+04	0.0	-0.37	-53.12	0.0	0.0	1375.07	0.0	0.0	0.0	-1.388e+05
		-1.388e+05	0.0	0.0	0.0	130.0	0.0	1321.95	0.0	0.0	0.0	3.650e+04
172	4	4.586e+04	0.0	0.12	-53.12	0.0	0.0	-426.10	0.0	0.0	0.0	4.586e+04
		-1.298e+04	0.0	0.0	0.0	130.0	0.0	-479.22	0.0	0.0	0.0	-1.298e+04
172	5	4.610e+04	0.0	-0.47	-53.12	0.0	0.0	1724.62	0.0	0.0	0.0	-1.746e+05
		-1.746e+05	0.0	0.0	0.0	130.0	0.0	1671.50	0.0	0.0	0.0	4.610e+04
172	9	5226.65	0.0	-0.06	-40.86	0.0	0.0	225.94	0.0	0.0	0.0	-2.149e+04
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	185.08	0.0	0.0	0.0	5226.65
172	10	2.488e+04	0.0	-0.25	-40.86	0.0	0.0	941.23	0.0	0.0	0.0	-9.483e+04
		-9.483e+04	0.0	0.0	0.0	130.0	0.0	900.37	0.0	0.0	0.0	2.488e+04
172	12	2.829e+04	0.0	0.08	-40.86	0.0	0.0	-259.55	0.0	0.0	0.0	2.829e+04
		-8111.42	0.0	0.0	0.0	130.0	0.0	-300.41	0.0	0.0	0.0	-8111.42
172	13	3.128e+04	0.0	-0.32	-40.86	0.0	0.0	1174.26	0.0	0.0	0.0	-1.187e+05
		-1.187e+05	0.0	0.0	0.0	130.0	0.0	1133.40	0.0	0.0	0.0	3.128e+04
172	17	5226.65	0.0	-0.06	-40.86	0.0	0.0	225.94	0.0	0.0	0.0	-2.149e+04
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	185.08	0.0	0.0	0.0	5226.65
172	18	9156.63	0.0	-0.10	-40.86	0.0	0.0	369.00	0.0	0.0	0.0	-3.616e+04
		-3.616e+04	0.0	0.0	0.0	130.0	0.0	328.13	0.0	0.0	0.0	9156.63
172	20	2559.04	0.0	-0.03	-40.86	0.0	0.0	128.84	0.0	0.0	0.0	-1.153e+04
		-1.153e+04	0.0	0.0	0.0	130.0	0.0	87.98	0.0	0.0	0.0	2559.04
172	21	5226.65	0.0	-0.06	-40.86	0.0	0.0	225.94	0.0	0.0	0.0	-2.149e+04
		-2.149e+04	0.0	0.0	0.0	130.0	0.0	185.08	0.0	0.0	0.0	5226.65
173	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
173	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
173	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
173	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
173	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
173	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
173	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
173	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
173	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21

176	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
176	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
176	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
176	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
176	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
176	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
176	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
176	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
176	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
177	1	1.849e+04	0.0	-0.05	-53.12	0.0	0.0	114.75	0.0	0.0	0.0	7025.82
		7025.82	0.0	0.0	0.0	130.0	0.0	61.63	0.0	0.0	0.0	1.849e+04
177	2	9.264e+04	0.0	-0.25	-53.12	0.0	0.0	458.39	0.0	0.0	0.0	3.650e+04
		3.650e+04	0.0	0.0	0.0	130.0	0.0	405.27	0.0	0.0	0.0	9.264e+04
177	4	-1.298e+04	0.0	0.08	-53.12	0.0	0.0	-118.48	0.0	0.0	0.0	-1.298e+04
		-3.184e+04	0.0	0.0	0.0	130.0	0.0	-171.60	0.0	0.0	0.0	-3.184e+04
177	5	1.168e+05	0.0	-0.31	-53.12	0.0	0.0	570.34	0.0	0.0	0.0	4.610e+04
		4.610e+04	0.0	0.0	0.0	130.0	0.0	517.22	0.0	0.0	0.0	1.168e+05
177	9	1.378e+04	0.0	-0.04	-40.86	0.0	0.0	86.20	0.0	0.0	0.0	5226.65
		5226.65	0.0	0.0	0.0	130.0	0.0	45.33	0.0	0.0	0.0	1.378e+04
177	10	6.321e+04	0.0	-0.17	-40.86	0.0	0.0	315.29	0.0	0.0	0.0	2.488e+04
		2.488e+04	0.0	0.0	0.0	130.0	0.0	274.43	0.0	0.0	0.0	6.321e+04
177	12	-8111.42	0.0	0.05	-40.86	0.0	0.0	-69.29	0.0	0.0	0.0	-8111.42
		-1.978e+04	0.0	0.0	0.0	130.0	0.0	-110.15	0.0	0.0	0.0	-1.978e+04
177	13	7.931e+04	0.0	-0.21	-40.86	0.0	0.0	389.92	0.0	0.0	0.0	3.128e+04
		3.128e+04	0.0	0.0	0.0	130.0	0.0	349.06	0.0	0.0	0.0	7.931e+04
177	17	1.378e+04	0.0	-0.04	-40.86	0.0	0.0	86.20	0.0	0.0	0.0	5226.65
		5226.65	0.0	0.0	0.0	130.0	0.0	45.33	0.0	0.0	0.0	1.378e+04
177	18	2.366e+04	0.0	-0.06	-40.86	0.0	0.0	132.01	0.0	0.0	0.0	9156.63
		9156.63	0.0	0.0	0.0	130.0	0.0	91.15	0.0	0.0	0.0	2.366e+04
177	20	7065.85	0.0	-0.02	-40.86	0.0	0.0	55.10	0.0	0.0	0.0	2559.04
		2559.04	0.0	0.0	0.0	130.0	0.0	14.24	0.0	0.0	0.0	7065.85
177	21	1.378e+04	0.0	-0.04	-40.86	0.0	0.0	86.20	0.0	0.0	0.0	5226.65
		5226.65	0.0	0.0	0.0	130.0	0.0	45.33	0.0	0.0	0.0	1.378e+04
178	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
178	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
178	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
178	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
178	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
178	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
178	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
178	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
178	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
179	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.02	0.0	110.0	0.0	54.99	208.99	0.0	0.0	1.149e+04
179	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.09	0.0	110.0	0.0	105.38	-192.59	0.0	0.0	-1.059e+04
179	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.09	0.0	110.0	0.0	80.19	-254.15	0.0	0.0	-1.398e+04
179	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.14e-05	0.0	0.03	0.0	110.0	0.0	80.19	191.35	0.0	0.0	1.052e+04
179	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.02	0.0	110.0	0.0	40.50	136.64	0.0	0.0	7515.31
179	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.06	0.0	110.0	0.0	74.09	-131.08	0.0	0.0	-7209.40
179	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.06	0.0	110.0	0.0	57.30	-172.12	0.0	0.0	-9466.52
179	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-7.63e-06	0.0	0.03	0.0	110.0	0.0	57.30	124.88	0.0	0.0	6868.44
179	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06

		-1818.41	0.0	0.04	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
179	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.04	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
179	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
179	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.04	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
180	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.06	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0
180	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	0.0-1.059e+04
		-1.059e+04	0.0	-0.10	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	0.0 -2.29e-05
180	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	0.0-1.398e+04
		-1.398e+04	0.0	-0.11	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	0.0 -1.14e-05
180	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	7515.31
		0.0	0.0	0.04	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0
180	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	0.0 -7209.40
		-7209.40	0.0	-0.07	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	0.0 -1.53e-05
180	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	0.0 -9466.52
		-9466.52	0.0	-0.08	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	0.0 -7.63e-06
180	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	0.0 -1818.41
		-1818.41	0.0	-0.03	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	0.0 -3.05e-06
180	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	0.0 -3011.66
		-3011.66	0.0	-0.03	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0
180	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	255.33
		0.0	0.0	-0.01	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0
180	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0 -1559.66
		-1559.66	0.0	-0.02	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0
181	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	0.0 -3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
181	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
181	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
181	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0 -2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
181	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
181	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
181	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0 -2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
181	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	0.0 -5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
181	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0 -2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
182	1	1.849e+04	0.0	0.06	-53.12	0.0	0.0	-72.63	0.0	0.0	0.0	0.0 1.849e+04
		5595.39	0.0	0.0	0.0	130.0	0.0	-125.75	0.0	0.0	0.0	5595.39
182	2	9.264e+04	0.0	0.27	-53.12	0.0	0.0	-458.30	0.0	0.0	0.0	0.0 9.264e+04
		2.961e+04	0.0	0.0	0.0	130.0	0.0	-511.42	0.0	0.0	0.0	0.0 2.961e+04
182	4	-1.070e+04	0.0	-0.09	-53.12	0.0	0.0	189.13	0.0	0.0	0.0	0.0-3.184e+04
		-3.184e+04	0.0	0.0	0.0	130.0	0.0	136.02	0.0	0.0	0.0	0.0-1.070e+04
182	5	1.168e+05	0.0	0.35	-53.12	0.0	0.0	-583.95	0.0	0.0	0.0	0.0 1.168e+05
		3.743e+04	0.0	0.0	0.0	130.0	0.0	-637.07	0.0	0.0	0.0	0.0 3.743e+04
182	9	1.378e+04	0.0	0.04	-40.86	0.0	0.0	-53.55	0.0	0.0	0.0	0.0 1.378e+04
		4159.29	0.0	0.0	0.0	130.0	0.0	-94.41	0.0	0.0	0.0	4159.29
182	10	6.321e+04	0.0	0.19	-40.86	0.0	0.0	-310.65	0.0	0.0	0.0	0.0 6.321e+04
		2.017e+04	0.0	0.0	0.0	130.0	0.0	-351.52	0.0	0.0	0.0	0.0 2.017e+04
182	12	-6705.57	0.0	-0.06	-40.86	0.0	0.0	120.97	0.0	0.0	0.0	0.0-1.978e+04
		-1.978e+04	0.0	0.0	0.0	130.0	0.0	80.11	0.0	0.0	0.0	0.0 -6705.57
182	13	7.931e+04	0.0	0.23	-40.86	0.0	0.0	-394.42	0.0	0.0	0.0	0.0 7.931e+04
		2.538e+04	0.0	0.0	0.0	130.0	0.0	-435.28	0.0	0.0	0.0	0.0 2.538e+04
182	17	1.378e+04	0.0	0.04	-40.86	0.0	0.0	-53.55	0.0	0.0	0.0	0.0 1.378e+04
		4159.29	0.0	0.0	0.0	130.0	0.0	-94.41	0.0	0.0	0.0	4159.29
182	18	2.366e+04	0.0	0.07	-40.86	0.0	0.0	-104.97	0.0	0.0	0.0	0.0 2.366e+04
		7360.78	0.0	0.0	0.0	130.0	0.0	-145.83	0.0	0.0	0.0	7360.78
182	20	7065.85	0.0	0.02	-40.86	0.0	0.0	-18.64	0.0	0.0	0.0	0.0 7065.85
		1986.32	0.0	0.0	0.0	130.0	0.0	-59.50	0.0	0.0	0.0	1986.32
182	21	1.378e+04	0.0	0.04	-40.86	0.0	0.0	-53.55	0.0	0.0	0.0	0.0 1.378e+04
		4159.29	0.0	0.0	0.0	130.0	0.0	-94.41	0.0	0.0	0.0	4159.29
183	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	0.0 -3692.27
183	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
183	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0-3.028e+04
183	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0 -2719.21

183	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0	6355.79
183	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0	-2.045e+04
183	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
183	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	0.0	-5393.31
183	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
184	4	-1.147e+04	-3736.97	-0.11	-30.47	0.0	0.0	194.52	56.90	0.0	-1.396e+04	-3.477e+04	0.0
		-3.477e+04	-1.396e+04	-0.06	43.51	130.0	0.0	164.05	100.41	0.0	-3736.97	-1.147e+04	0.0
184	6	-3563.33	-6979.70	-0.05	-30.47	0.0	0.0	78.14	89.22	0.0	-2.141e+04	-1.174e+04	0.0
		-1.174e+04	-2.141e+04	-0.06	43.51	130.0	0.0	47.67	132.73	0.0	-6979.70	-3563.33	0.0
184	7	4.584e+04	-6078.51	0.13	-30.47	0.0	0.0	-217.95	43.50	0.0	-1.456e+04	4.584e+04	0.0
		1.552e+04	-1.456e+04	-7.25e-03	43.51	130.0	0.0	-248.41	87.01	0.0	-6078.51	1.552e+04	0.0
184	12	-7421.07	-2811.23	-0.07	-23.44	0.0	0.0	127.92	40.45	0.0	-1.025e+04	-2.253e+04	0.0
		-2.253e+04	-1.025e+04	-0.04	33.47	130.0	0.0	104.48	73.92	0.0	-2811.23	-7421.07	0.0
184	14	-2151.55	-4973.05	-0.03	-23.44	0.0	0.0	50.33	62.00	0.0	-1.521e+04	-7171.11	0.0
		-7171.11	-1.521e+04	-0.04	33.47	130.0	0.0	26.89	95.47	0.0	-4973.05	-2151.55	0.0
184	15	3.121e+04	-4372.25	0.09	-23.44	0.0	0.0	-147.06	31.52	0.0	-1.065e+04	3.121e+04	0.0
		1.057e+04	-1.065e+04	-6.81e-03	33.47	130.0	0.0	-170.50	64.99	0.0	-4372.25	1.057e+04	0.0
184	18	7030.94	-3519.66	0.01	-23.44	0.0	0.0	-23.41	33.43	0.0	-1.004e+04	7030.94	0.0
		2464.48	-1.004e+04	-0.02	33.47	130.0	0.0	-46.85	66.90	0.0	-3519.66	2464.48	0.0
184	19	1.087e+04	-3159.31	0.03	-23.44	0.0	0.0	-43.32	26.16	0.0	-8736.35	1.087e+04	0.0
		3714.49	-8736.35	-0.02	33.47	130.0	0.0	-66.76	59.64	0.0	-3159.31	3714.49	0.0
184	20	772.14	-3051.28	-4.05e-03	-23.44	0.0	0.0	9.82	30.60	0.0	-9204.72	505.06	0.0
		258.62	-9204.72	-0.02	33.47	130.0	0.0	-13.61	64.07	0.0	-3051.28	258.62	0.0
184	21	6263.00	-3111.30	0.01	-23.44	0.0	0.0	-19.70	28.14	0.0	-8944.51	6263.00	0.0
		2178.55	-8944.51	-0.02	33.47	130.0	0.0	-43.14	61.61	0.0	-3111.30	2178.55	0.0
185	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	-0.02	0.0	110.0	0.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
185	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.03	0.0	110.0	0.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
185	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.03	0.0	110.0	0.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
185	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	-9.68e-03	0.0	110.0	0.0	40.50	136.64	0.0	0.0	0.0	7515.31
185	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.02	0.0	110.0	0.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
185	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.02	0.0	110.0	0.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
185	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	7.18e-03	0.0	110.0	0.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
185	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0	0.0
		-3011.66	0.0	9.01e-03	0.0	110.0	0.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
185	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	3.21e-03	0.0	110.0	0.0	40.50	4.64	0.0	0.0	0.0	255.33
185	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0	0.0
		-1559.66	0.0	6.44e-03	0.0	110.0	0.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
186	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
186	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
186	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0	0.0
186	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
186	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
186	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0	0.0
186	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
186	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0	0.0
186	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
187	1	5595.39	0.0	0.07	-53.12	0.0	0.0	-260.02	0.0	0.0	0.0	0.0	5595.39
		-3.166e+04	0.0	0.0	0.0	130.0	0.0	-313.14	0.0	0.0	0.0	0.0	-3.166e+04
187	2	2.961e+04	0.0	0.35	-53.12	0.0	0.0	-1374.98	0.0	0.0	0.0	0.0	2.961e+04
		-1.526e+05	0.0	0.0	0.0	130.0	0.0	-1428.10	0.0	0.0	0.0	0.0	-1.526e+05
187	4	5.042e+04	0.0	-0.12	-53.12	0.0	0.0	496.75	0.0	0.0	0.0	0.0	5.042e+04
		-1.070e+04	0.0	0.0	0.0	130.0	0.0	443.63	0.0	0.0	0.0	0.0	-1.070e+04
187	5	3.743e+04	0.0	0.44	-53.12	0.0	0.0	-1738.23	0.0	0.0	0.0	0.0	3.743e+04
		-1.920e+05	0.0	0.0	0.0	130.0	0.0	-1791.35	0.0	0.0	0.0	0.0	-1.920e+05
187	9	4159.29	0.0	0.05	-40.86	0.0	0.0	-193.29	0.0	0.0	0.0	0.0	4159.29

		-2.362e+04	0.0	0.0	0.0	130.0	0.0	-234.15	0.0	0.0	0.0	0.0	-2.362e+04
187	10	2.017e+04	0.0	0.24	-40.86	0.0	0.0	-936.60	0.0	0.0	0.0	0.0	2.017e+04
		-1.042e+05	0.0	0.0	0.0	130.0	0.0	-977.46	0.0	0.0	0.0	0.0	-1.042e+05
187	12	3.110e+04	0.0	-0.07	-40.86	0.0	0.0	311.23	0.0	0.0	0.0	0.0	-6705.57
		-6705.57	0.0	0.0	0.0	130.0	0.0	270.36	0.0	0.0	0.0	0.0	3.110e+04
187	13	2.538e+04	0.0	0.30	-40.86	0.0	0.0	-1178.76	0.0	0.0	0.0	0.0	2.538e+04
		-1.305e+05	0.0	0.0	0.0	130.0	0.0	-1219.62	0.0	0.0	0.0	0.0	-1.305e+05
187	17	4159.29	0.0	0.05	-40.86	0.0	0.0	-193.29	0.0	0.0	0.0	0.0	4159.29
		-2.362e+04	0.0	0.0	0.0	130.0	0.0	-234.15	0.0	0.0	0.0	0.0	-2.362e+04
187	18	7360.78	0.0	0.09	-40.86	0.0	0.0	-341.95	0.0	0.0	0.0	0.0	7360.78
		-3.975e+04	0.0	0.0	0.0	130.0	0.0	-382.81	0.0	0.0	0.0	0.0	-3.975e+04
187	20	1986.32	0.0	0.03	-40.86	0.0	0.0	-92.38	0.0	0.0	0.0	0.0	1986.32
		-1.268e+04	0.0	0.0	0.0	130.0	0.0	-133.24	0.0	0.0	0.0	0.0	-1.268e+04
187	21	4159.29	0.0	0.05	-40.86	0.0	0.0	-193.29	0.0	0.0	0.0	0.0	4159.29
		-2.362e+04	0.0	0.0	0.0	130.0	0.0	-234.15	0.0	0.0	0.0	0.0	-2.362e+04
188	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	0.0	-3692.27
188	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0	9920.23
188	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0	-3.028e+04
188	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
188	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0	6355.79
188	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0	-2.045e+04
188	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
188	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	0.0	-5393.31
188	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
189	3	8.260e+04	-2.063e+04	-0.28	-30.47	0.0	0.0	81.94	-25.95	0.0	-2.063e+04	7.393e+04	8.260e+04
		7.393e+04	-2.164e+04	-0.05	43.51	130.0	0.0	51.47	17.56	0.0	-2.118e+04	8.260e+04	7.393e+04
189	4	-5.795e+04	-2.344e+04	0.28	-30.47	0.0	0.0	-44.81	-49.84	0.0	-2.344e+04	-5.795e+04	-5.795e+04
		-6.575e+04	-2.709e+04	0.16	43.51	130.0	0.0	-75.28	-6.33	0.0	-2.709e+04	-6.575e+04	-6.575e+04
189	5	6.731e+04	-3.560e+04	-0.20	-30.47	0.0	0.0	66.74	-40.68	0.0	-3.560e+04	6.062e+04	6.731e+04
		6.062e+04	-3.807e+04	0.05	43.51	130.0	0.0	36.28	2.84	0.0	-3.806e+04	6.731e+04	6.062e+04
189	6	-1.851e+04	-3.728e+04	0.13	-30.47	0.0	0.0	-9.31	-55.01	0.0	-3.728e+04	-1.851e+04	-1.851e+04
		-2.170e+04	-4.160e+04	0.15	43.51	130.0	0.0	-39.77	-11.50	0.0	-4.160e+04	-2.170e+04	-2.170e+04
189	7	8.815e+04	-2.786e+04	-0.29	-30.47	0.0	0.0	85.61	-31.19	0.0	-2.786e+04	7.900e+04	8.815e+04
		7.900e+04	-2.932e+04	-0.03	43.51	130.0	0.0	55.14	12.32	0.0	-2.909e+04	8.815e+04	7.900e+04
189	11	5.638e+04	-1.548e+04	-0.19	-23.44	0.0	0.0	56.99	-20.68	0.0	-1.548e+04	5.050e+04	5.638e+04
		5.050e+04	-1.631e+04	-0.03	33.47	130.0	0.0	33.55	12.80	0.0	-1.599e+04	5.638e+04	5.050e+04
189	12	-3.742e+04	-1.735e+04	0.18	-23.44	0.0	0.0	-27.51	-36.60	0.0	-1.735e+04	-3.742e+04	-3.742e+04
		-4.252e+04	-1.994e+04	0.11	33.47	130.0	0.0	-50.95	-3.13	0.0	-1.994e+04	-4.252e+04	-4.252e+04
189	13	4.619e+04	-2.546e+04	-0.14	-23.44	0.0	0.0	46.86	-30.49	0.0	-2.546e+04	4.162e+04	4.619e+04
		4.162e+04	-2.726e+04	0.03	33.47	130.0	0.0	23.42	2.98	0.0	-2.725e+04	4.619e+04	4.162e+04
189	14	-1.113e+04	-2.658e+04	0.09	-23.44	0.0	0.0	-3.84	-40.05	0.0	-2.658e+04	-1.113e+04	-1.113e+04
		-1.315e+04	-2.961e+04	0.10	33.47	130.0	0.0	-27.28	-6.58	0.0	-2.961e+04	-1.315e+04	-1.315e+04
189	15	6.008e+04	-2.030e+04	-0.20	-23.44	0.0	0.0	59.43	-24.17	0.0	-2.030e+04	5.387e+04	6.008e+04
		5.387e+04	-2.144e+04	-0.02	33.47	130.0	0.0	36.00	9.30	0.0	-2.127e+04	6.008e+04	5.387e+04
189	18	1.393e+04	-1.824e+04	-0.03	-23.44	0.0	0.0	20.41	-29.15	0.0	-1.824e+04	1.277e+04	1.393e+04
		1.277e+04	-1.989e+04	0.04	33.47	130.0	0.0	-3.02	4.32	0.0	-1.986e+04	1.390e+04	1.277e+04
189	19	2.122e+04	-1.615e+04	-0.06	-23.44	0.0	0.0	26.94	-26.34	0.0	-1.615e+04	1.924e+04	2.122e+04
		1.924e+04	-1.749e+04	0.03	33.47	130.0	0.0	3.51	7.13	0.0	-1.740e+04	2.122e+04	1.924e+04
189	20	1933.74	-1.652e+04	0.02	-23.44	0.0	0.0	10.05	-29.52	0.0	-1.652e+04	1653.99	1933.74
		1436.50	-1.821e+04	0.05	33.47	130.0	0.0	-13.39	3.95	0.0	-1.818e+04	1436.50	1436.50
189	21	1.247e+04	-1.631e+04	-0.03	-23.44	0.0	0.0	19.43	-27.75	0.0	-1.631e+04	1.142e+04	1.247e+04
		1.142e+04	-1.781e+04	0.04	33.47	130.0	0.0	-4.00	5.72	0.0	-1.775e+04	1.243e+04	1.142e+04
190	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0	1.149e+04
		0.0	0.0	-0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	0.0	0.0
190	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	-0.24	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	0.0	-1.059e+04
190	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	-0.22	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	0.0	-1.398e+04
190	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	0.0	1.052e+04
		-1.14e-05	0.0	-0.10	0.0	110.0	80.19	191.35	0.0	0.0	0.0	0.0	-1.14e-05
190	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0	7515.31
		0.0	0.0	-0.05	0.0	110.0	40.50	136.64	0.0	0.0	0.0	0.0	0.0
190	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	-0.17	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	0.0	-7209.40
190	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	-0.15	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	0.0	-9466.52
190	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	0.0	6868.44
		-7.63e-06	0.0	-0.08	0.0	110.0	57.30	124.88	0.0	0.0	0.0	0.0	-7.63e-06

190	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	-0.10	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
190	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	-0.10	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
190	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-0.08	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
190	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	-0.09	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
191	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
191	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
191	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
191	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
191	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
191	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
191	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
191	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
191	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
192	1	5117.88	0.0	-0.06	-53.12	0.0	0.0	309.46	0.0	0.0	0.0	0.0-3.166e+04
		-3.166e+04	0.0	0.0	0.0	130.0	0.0	256.34	0.0	0.0	0.0	0.0 5117.88
192	2	2.731e+04	0.0	-0.31	-53.12	0.0	0.0	1410.40	0.0	0.0	0.0	0.0-1.526e+05
		-1.526e+05	0.0	0.0	0.0	130.0	0.0	1357.28	0.0	0.0	0.0	0.0 2.731e+04
192	4	5.042e+04	0.0	0.10	-53.12	0.0	0.0	-437.78	0.0	0.0	0.0	0.0 5.042e+04
		-9940.96	0.0	0.0	0.0	130.0	0.0	-490.90	0.0	0.0	0.0	0.0 -9940.96
192	5	3.453e+04	0.0	-0.39	-53.12	0.0	0.0	1769.07	0.0	0.0	0.0	0.0-1.920e+05
		-1.920e+05	0.0	0.0	0.0	130.0	0.0	1715.95	0.0	0.0	0.0	0.0 3.453e+04
192	9	3802.97	0.0	-0.05	-40.86	0.0	0.0	231.41	0.0	0.0	0.0	0.0-2.362e+04
		-2.362e+04	0.0	0.0	0.0	130.0	0.0	190.55	0.0	0.0	0.0	0.0 3802.97
192	10	1.859e+04	0.0	-0.21	-40.86	0.0	0.0	965.36	0.0	0.0	0.0	0.0-1.042e+05
		-1.042e+05	0.0	0.0	0.0	130.0	0.0	924.50	0.0	0.0	0.0	0.0 1.859e+04
192	12	3.110e+04	0.0	0.06	-40.86	0.0	0.0	-266.75	0.0	0.0	0.0	0.0 3.110e+04
		-6236.26	0.0	0.0	0.0	130.0	0.0	-307.62	0.0	0.0	0.0	0.0 -6236.26
192	13	2.341e+04	0.0	-0.26	-40.86	0.0	0.0	1204.48	0.0	0.0	0.0	0.0-1.305e+05
		-1.305e+05	0.0	0.0	0.0	130.0	0.0	1163.62	0.0	0.0	0.0	0.0 2.341e+04
192	17	3802.97	0.0	-0.05	-40.86	0.0	0.0	231.41	0.0	0.0	0.0	0.0-2.362e+04
		-2.362e+04	0.0	0.0	0.0	130.0	0.0	190.55	0.0	0.0	0.0	0.0 3802.97
192	18	6761.27	0.0	-0.08	-40.86	0.0	0.0	378.20	0.0	0.0	0.0	0.0-3.975e+04
		-3.975e+04	0.0	0.0	0.0	130.0	0.0	337.34	0.0	0.0	0.0	0.0 6761.27
192	20	1795.12	0.0	-0.02	-40.86	0.0	0.0	131.77	0.0	0.0	0.0	0.0-1.268e+04
		-1.268e+04	0.0	0.0	0.0	130.0	0.0	90.91	0.0	0.0	0.0	0.0 1795.12
192	21	3802.97	0.0	-0.05	-40.86	0.0	0.0	231.41	0.0	0.0	0.0	0.0-2.362e+04
		-2.362e+04	0.0	0.0	0.0	130.0	0.0	190.55	0.0	0.0	0.0	0.0 3802.97
193	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	0.0 -3692.27
193	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0 9920.23
193	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0-3.028e+04
193	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0 -2719.21
193	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0 6355.79
193	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0-2.045e+04
193	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0 -2719.21
193	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	0.0 -5393.31
193	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0 -2719.21
196	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	0.0 -3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
196	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	0.0 9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
196	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
196	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0 -2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
196	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	0.0 6355.79

		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
196	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0	0.0
196	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
196	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0	0.0
196	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197	1	1.754e+04	0.0	-0.05	-53.12	0.0	0.0	122.08	0.0	0.0	0.0	0.0	5117.88
		5117.88	0.0	0.0	0.0	130.0	0.0	68.96	0.0	0.0	0.0	0.0	1.754e+04
197	2	8.804e+04	0.0	-0.25	-53.12	0.0	0.0	493.71	0.0	0.0	0.0	0.0	2.731e+04
		2.731e+04	0.0	0.0	0.0	130.0	0.0	440.59	0.0	0.0	0.0	0.0	8.804e+04
197	4	-9940.96	0.0	0.08	-53.12	0.0	0.0	-130.16	0.0	0.0	0.0	0.0	-9940.96
		-3.031e+04	0.0	0.0	0.0	130.0	0.0	-183.28	0.0	0.0	0.0	0.0	-3.031e+04
197	5	1.110e+05	0.0	-0.31	-53.12	0.0	0.0	614.79	0.0	0.0	0.0	0.0	3.453e+04
		3.453e+04	0.0	0.0	0.0	130.0	0.0	561.67	0.0	0.0	0.0	0.0	1.110e+05
197	9	1.306e+04	0.0	-0.04	-40.86	0.0	0.0	91.67	0.0	0.0	0.0	0.0	3802.97
		3802.97	0.0	0.0	0.0	130.0	0.0	50.80	0.0	0.0	0.0	0.0	1.306e+04
197	10	6.006e+04	0.0	-0.17	-40.86	0.0	0.0	339.42	0.0	0.0	0.0	0.0	1.859e+04
		1.859e+04	0.0	0.0	0.0	130.0	0.0	298.56	0.0	0.0	0.0	0.0	6.006e+04
197	12	-6236.26	0.0	0.05	-40.86	0.0	0.0	-76.50	0.0	0.0	0.0	0.0	-6236.26
		-1.884e+04	0.0	0.0	0.0	130.0	0.0	-117.36	0.0	0.0	0.0	0.0	-1.884e+04
197	13	7.538e+04	0.0	-0.21	-40.86	0.0	0.0	420.14	0.0	0.0	0.0	0.0	2.341e+04
		2.341e+04	0.0	0.0	0.0	130.0	0.0	379.28	0.0	0.0	0.0	0.0	7.538e+04
197	17	1.306e+04	0.0	-0.04	-40.86	0.0	0.0	91.67	0.0	0.0	0.0	0.0	3802.97
		3802.97	0.0	0.0	0.0	130.0	0.0	50.80	0.0	0.0	0.0	0.0	1.306e+04
197	18	2.246e+04	0.0	-0.06	-40.86	0.0	0.0	141.22	0.0	0.0	0.0	0.0	6761.27
		6761.27	0.0	0.0	0.0	130.0	0.0	100.36	0.0	0.0	0.0	0.0	2.246e+04
197	20	6683.47	0.0	-0.02	-40.86	0.0	0.0	58.03	0.0	0.0	0.0	0.0	1795.12
		1795.12	0.0	0.0	0.0	130.0	0.0	17.17	0.0	0.0	0.0	0.0	6683.47
197	21	1.306e+04	0.0	-0.04	-40.86	0.0	0.0	91.67	0.0	0.0	0.0	0.0	3802.97
		3802.97	0.0	0.0	0.0	130.0	0.0	50.80	0.0	0.0	0.0	0.0	1.306e+04
198	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	0.0	-3692.27
198	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0	9920.23
198	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0	-3.028e+04
198	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
198	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0	6355.79
198	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0	-2.045e+04
198	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
198	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	0.0	-5393.31
198	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
199	4	1.149e+04	0.0	1.18	208.99	0.0	-54.99	-208.99	0.0	0.0	0.0	0.0	1.149e+04
		0.0	0.0	0.02	0.0	110.0	3.03e-04	-8.21e-05	0.0	0.0	0.0	0.0	0.0
199	5	-2.29e-05	0.0	-0.64	-192.59	0.0	-105.38	192.59	0.0	0.0	0.0	0.0	-1.059e+04
		-1.059e+04	0.0	0.09	0.0	110.0	-2.84e-04	-1.54e-04	0.0	0.0	0.0	0.0	-2.29e-05
199	7	-1.14e-05	0.0	-1.01	-254.15	0.0	-80.19	254.15	0.0	0.0	0.0	0.0	-1.398e+04
		-1.398e+04	0.0	0.09	0.0	110.0	-3.72e-04	-1.18e-04	0.0	0.0	0.0	0.0	-1.14e-05
199	12	7515.31	0.0	0.78	136.64	0.0	-40.50	-136.64	0.0	0.0	0.0	0.0	7515.31
		0.0	0.0	0.02	0.0	110.0	1.98e-04	-6.05e-05	0.0	0.0	0.0	0.0	0.0
199	13	-1.53e-05	0.0	-0.43	-131.08	0.0	-74.09	131.08	0.0	0.0	0.0	0.0	-7209.40
		-7209.40	0.0	0.06	0.0	110.0	-1.93e-04	-1.09e-04	0.0	0.0	0.0	0.0	-1.53e-05
199	15	-7.63e-06	0.0	-0.67	-172.12	0.0	-57.30	172.12	0.0	0.0	0.0	0.0	-9466.52
		-9466.52	0.0	0.06	0.0	110.0	-2.52e-04	-8.45e-05	0.0	0.0	0.0	0.0	-7.63e-06
199	18	-3.05e-06	0.0	-0.03	-33.06	0.0	-47.22	33.06	0.0	0.0	0.0	0.0	-1818.41
		-1818.41	0.0	0.04	0.0	110.0	-4.91e-05	-7.01e-05	0.0	0.0	0.0	0.0	-3.05e-06
199	19	0.0	0.0	-0.15	-54.76	0.0	-40.50	54.76	0.0	0.0	0.0	0.0	-3011.66
		-3011.66	0.0	0.04	0.0	110.0	-8.02e-05	-6.05e-05	0.0	0.0	0.0	0.0	0.0
199	20	255.33	0.0	0.14	4.64	0.0	-40.50	-4.64	0.0	0.0	0.0	0.0	255.33
		0.0	0.0	0.03	0.0	110.0	6.14e-06	-6.05e-05	0.0	0.0	0.0	0.0	0.0
199	21	0.0	0.0	-0.02	-28.36	0.0	-40.50	28.36	0.0	0.0	0.0	0.0	-1559.66
		-1559.66	0.0	0.04	0.0	110.0	-4.18e-05	-6.05e-05	0.0	0.0	0.0	0.0	0.0
200	4	6.974e+04	2.545e+04	-0.08	-30.47	0.0	0.0	610.99	206.58	0.0	-4232.26	-7704.40	6.974e+04
		-7704.40	-4232.26	-0.03	43.51	130.0	0.0	580.52	250.09	0.0	2.545e+04	6.974e+04	2.545e+04
200	5	3773.58	5.620e+04	0.08	-30.47	0.0	0.0	-639.83	395.77	0.0	1923.70	3773.58	5.620e+04
		-8.138e+04	1923.70	-0.04	43.51	130.0	0.0	-670.30	439.29	0.0	5.620e+04	-8.138e+04	1923.70
200	7	6111.49	4.799e+04	0.10	-30.47	0.0	0.0	-829.11	320.76	0.0	3460.11	6111.49	4.799e+04
		-1.037e+05	3460.11	-0.03	43.51	130.0	0.0	-859.58	364.27	0.0	4.799e+04	-1.037e+05	3460.11

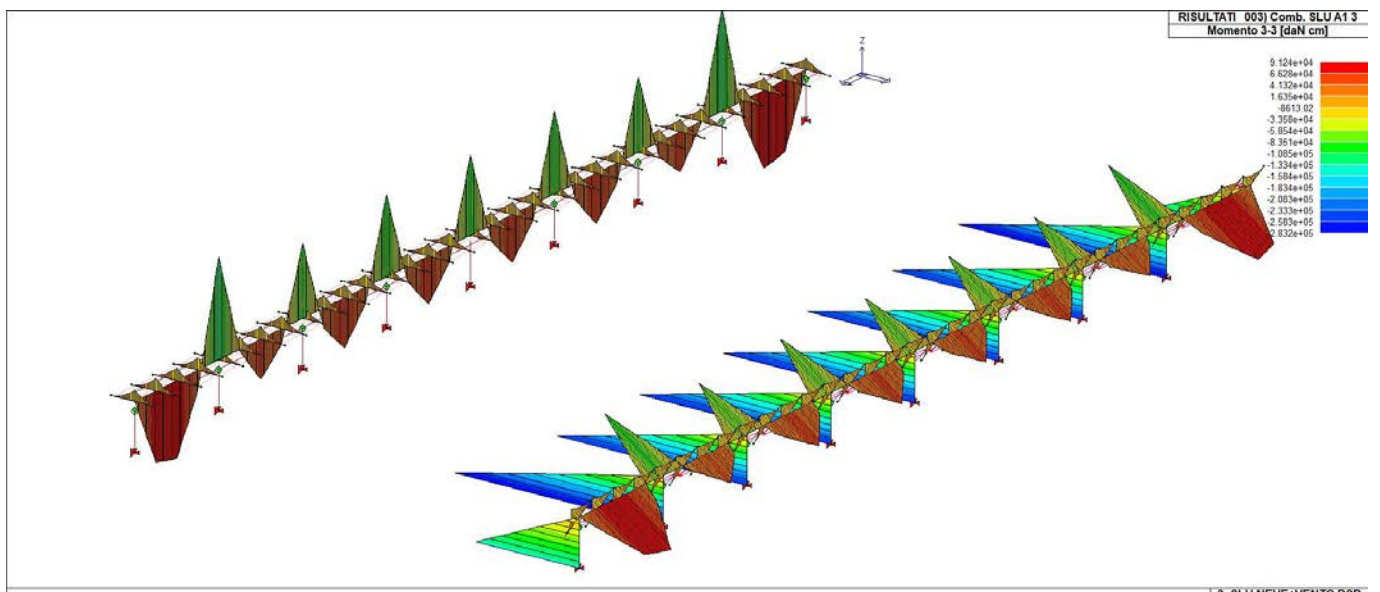
200	8	6.248e+04	3.583e+04	-0.07	-30.47	0.0	0.0	554.33	287.51	0.0	-4375.65	-7604.00
		-7604.00	-4375.65	-0.04	43.51	130.0	0.0	523.86	331.02	0.0	3.583e+04	6.248e+04
200	12	4.470e+04	1.953e+04	-0.05	-23.44	0.0	0.0	395.22	155.02	0.0	-2798.85	-5152.14
		-5152.14	-2798.85	-0.02	33.47	130.0	0.0	371.78	188.49	0.0	1.953e+04	4.470e+04
200	13	2499.86	4.003e+04	0.05	-23.44	0.0	0.0	-438.66	281.14	0.0	1305.13	2499.86
		-5.605e+04	1305.13	-0.03	33.47	130.0	0.0	-462.10	314.62	0.0	4.003e+04	-5.605e+04
200	15	4058.46	3.455e+04	0.07	-23.44	0.0	0.0	-564.85	231.14	0.0	2329.40	4058.46
		-7.090e+04	2329.40	-0.02	33.47	130.0	0.0	-588.29	264.61	0.0	3.455e+04	-7.090e+04
200	16	3.986e+04	2.645e+04	-0.05	-23.44	0.0	0.0	357.44	208.97	0.0	-2894.44	-5085.20
		-5085.20	-2894.44	-0.03	33.47	130.0	0.0	334.00	242.44	0.0	2.645e+04	3.986e+04
200	18	-45.55	2.680e+04	0.02	-23.44	0.0	0.0	-132.28	188.91	0.0	65.05	-45.55
		-1.876e+04	65.05	-0.02	33.47	130.0	0.0	-155.71	222.38	0.0	2.680e+04	-1.876e+04
200	19	740.45	2.475e+04	0.02	-23.44	0.0	0.0	-199.15	169.30	0.0	567.63	740.45
		-2.667e+04	567.63	-0.02	33.47	130.0	0.0	-222.59	202.77	0.0	2.475e+04	-2.667e+04
200	20	-1088.29	2.313e+04	1.79e-03	-23.44	0.0	0.0	-14.69	164.87	0.0	-477.14	-1088.29
		-4521.40	-477.14	-0.02	33.47	130.0	0.0	-38.13	198.34	0.0	2.313e+04	-4521.40
200	21	-72.32	2.403e+04	0.01	-23.44	0.0	0.0	-117.17	167.33	0.0	103.29	-72.32
		-1.683e+04	103.29	-0.02	33.47	130.0	0.0	-140.60	200.80	0.0	2.403e+04	-1.683e+04
201	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
201	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
201	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
201	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
201	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
201	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
201	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
201	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
201	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
202	1	1.754e+04	0.0	0.05	-53.12	0.0	0.0	-65.30	0.0	0.0	0.0	1.754e+04
		5593.27	0.0	0.0	0.0	130.0	0.0	-118.42	0.0	0.0	0.0	5593.27
202	2	8.804e+04	0.0	0.24	-53.12	0.0	0.0	-422.97	0.0	0.0	0.0	8.804e+04
		2.960e+04	0.0	0.0	0.0	130.0	0.0	-476.09	0.0	0.0	0.0	2.960e+04
202	4	-1.070e+04	0.0	-0.08	-53.12	0.0	0.0	177.45	0.0	0.0	0.0	-3.031e+04
		-3.031e+04	0.0	0.0	0.0	130.0	0.0	124.34	0.0	0.0	0.0	-1.070e+04
202	5	1.110e+05	0.0	0.30	-53.12	0.0	0.0	-539.49	0.0	0.0	0.0	1.110e+05
		3.742e+04	0.0	0.0	0.0	130.0	0.0	-592.61	0.0	0.0	0.0	3.742e+04
202	9	1.306e+04	0.0	0.04	-40.86	0.0	0.0	-48.08	0.0	0.0	0.0	1.306e+04
		4157.70	0.0	0.0	0.0	130.0	0.0	-88.94	0.0	0.0	0.0	4157.70
202	10	6.006e+04	0.0	0.16	-40.86	0.0	0.0	-286.52	0.0	0.0	0.0	6.006e+04
		2.016e+04	0.0	0.0	0.0	130.0	0.0	-327.38	0.0	0.0	0.0	2.016e+04
202	12	-6703.48	0.0	-0.05	-40.86	0.0	0.0	113.76	0.0	0.0	0.0	-1.884e+04
		-1.884e+04	0.0	0.0	0.0	130.0	0.0	72.90	0.0	0.0	0.0	-6703.48
202	13	7.538e+04	0.0	0.21	-40.86	0.0	0.0	-364.20	0.0	0.0	0.0	7.538e+04
		2.537e+04	0.0	0.0	0.0	130.0	0.0	-405.06	0.0	0.0	0.0	2.537e+04
202	17	1.306e+04	0.0	0.04	-40.86	0.0	0.0	-48.08	0.0	0.0	0.0	1.306e+04
		4157.70	0.0	0.0	0.0	130.0	0.0	-88.94	0.0	0.0	0.0	4157.70
202	18	2.246e+04	0.0	0.06	-40.86	0.0	0.0	-95.76	0.0	0.0	0.0	2.246e+04
		7358.11	0.0	0.0	0.0	130.0	0.0	-136.63	0.0	0.0	0.0	7358.11
202	20	6683.47	0.0	0.02	-40.86	0.0	0.0	-15.71	0.0	0.0	0.0	6683.47
		1985.46	0.0	0.0	0.0	130.0	0.0	-56.57	0.0	0.0	0.0	1985.46
202	21	1.306e+04	0.0	0.04	-40.86	0.0	0.0	-48.08	0.0	0.0	0.0	1.306e+04
		4157.70	0.0	0.0	0.0	130.0	0.0	-88.94	0.0	0.0	0.0	4157.70
203	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
203	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
203	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
203	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
203	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
203	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
203	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
203	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
203	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0

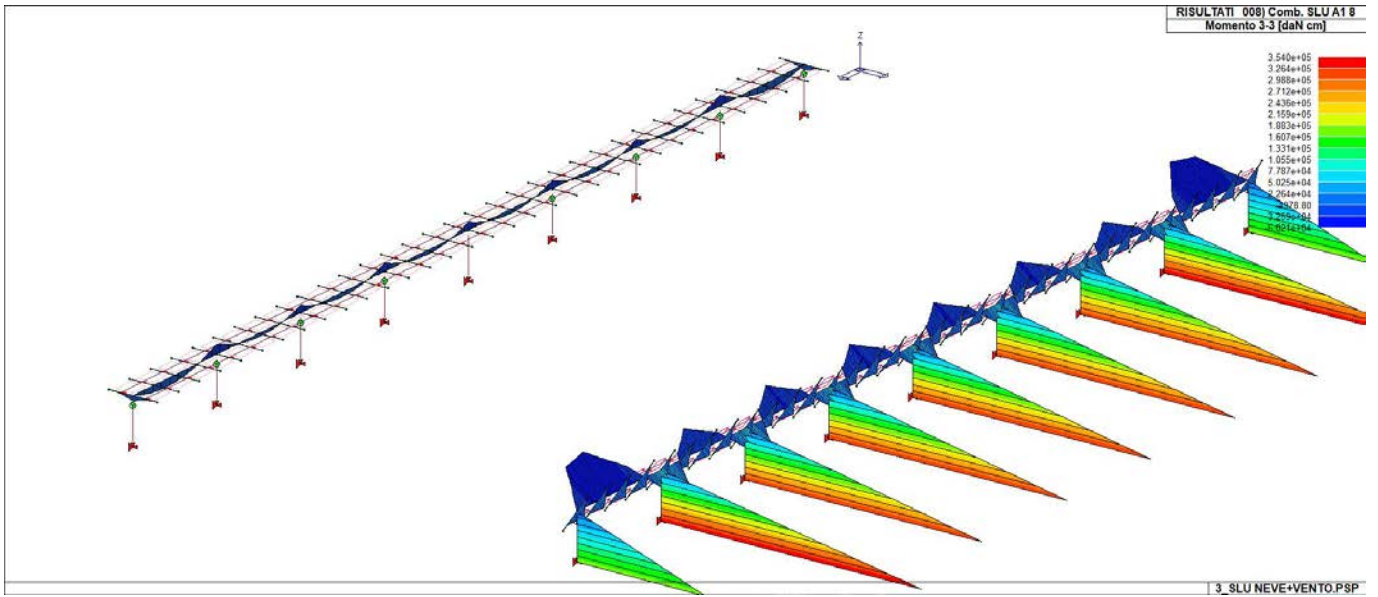
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
204	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	0.18	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	0.0
204	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	0.0
204	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	0.0
		-1.059e+04	0.0	0.24	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	0.0
204	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	0.0
		-1.398e+04	0.0	0.22	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	0.0
204	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	0.0
		-1.14e-05	0.0	0.10	0.0	110.0	80.19	191.35	0.0	0.0	0.0	0.0
204	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	0.13	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	0.0
204	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.05	0.0	110.0	40.50	136.64	0.0	0.0	0.0	0.0
204	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	0.0
		-7209.40	0.0	0.17	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	0.0
204	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	0.0
		-9466.52	0.0	0.15	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	0.0
204	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	0.0
		-7.63e-06	0.0	0.08	0.0	110.0	57.30	124.88	0.0	0.0	0.0	0.0
204	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	0.0
		-1818.41	0.0	0.10	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	0.0
204	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.10	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	0.0
204	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.08	0.0	110.0	40.50	4.64	0.0	0.0	0.0	0.0
204	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.09	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	0.0
205	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.06	0.0	110.0	54.99	208.99	0.0	0.0	0.0	0.0
205	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	0.0
		-1.059e+04	0.0	0.11	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	0.0
205	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	0.0
		-1.398e+04	0.0	0.09	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	0.0
205	8	1.052e+04	0.0	0.87	191.35	0.0	-2.76e-04	1.15e-04	0.0	0.0	0.0	0.0
		-1.14e-05	0.0	0.08	0.0	110.0	80.19	191.35	0.0	0.0	0.0	0.0
205	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.04	0.0	110.0	40.50	136.64	0.0	0.0	0.0	0.0
205	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	0.0
		-7209.40	0.0	0.08	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	0.0
205	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	0.0
		-9466.52	0.0	0.06	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	0.0
205	16	6868.44	0.0	0.58	124.88	0.0	-1.80e-04	8.21e-05	0.0	0.0	0.0	0.0
		-7.63e-06	0.0	0.06	0.0	110.0	57.30	124.88	0.0	0.0	0.0	0.0
205	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	0.0
		-1818.41	0.0	0.05	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	0.0
205	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.05	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	0.0
205	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	0.05	0.0	110.0	40.50	4.64	0.0	0.0	0.0	0.0
205	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	0.05	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	0.0
206	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
206	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	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
206	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
206	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
206	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	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
206	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
206	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
206	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
206	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
207	1	5593.27	0.0	0.06	-53.12	0.0	0.0	-252.69	0.0	0.0	0.0	0.0
		-3.071e+04	0.0	0.0	0.0	130.0	0.0	-305.81	0.0	0.0	0.0	0.0
207	2	2.960e+04	0.0	0.32	-53.12	0.0	0.0	-1339.65	0.0	0.0	0.0	0.0
		-1.480e+05	0.0	0.0	0.0	130.0	0.0	-1392.77	0.0	0.0	0.0	0.0
207	4	4.891e+04	0.0	-0.11	-53.12	0.0	0.0	485.07	0.0	0.0	0.0	0.0
		-1.070e+04	0.0	0.0	0.0	130.0	0.0	431.95	0.0	0.0	0.0	0.0

207	5	3.742e+04	0.0	0.40	-53.12	0.0	0.0	-1693.78	0.0	0.0	0.0	3.742e+04
		-1.862e+05	0.0	0.0	0.0	130.0	0.0	-1746.90	0.0	0.0	0.0	-1.862e+05
207	9	4157.70	0.0	0.05	-40.86	0.0	0.0	-187.82	0.0	0.0	0.0	4157.70
		-2.291e+04	0.0	0.0	0.0	130.0	0.0	-228.68	0.0	0.0	0.0	-2.291e+04
207	10	2.016e+04	0.0	0.22	-40.86	0.0	0.0	-912.46	0.0	0.0	0.0	2.016e+04
		-1.011e+05	0.0	0.0	0.0	130.0	0.0	-953.32	0.0	0.0	0.0	-1.011e+05
207	12	3.016e+04	0.0	-0.07	-40.86	0.0	0.0	304.02	0.0	0.0	0.0	-6703.48
		-6703.48	0.0	0.0	0.0	130.0	0.0	263.16	0.0	0.0	0.0	3.016e+04
207	13	2.537e+04	0.0	0.27	-40.86	0.0	0.0	-1148.54	0.0	0.0	0.0	2.537e+04
		-1.266e+05	0.0	0.0	0.0	130.0	0.0	-1189.40	0.0	0.0	0.0	-1.266e+05
207	17	4157.70	0.0	0.05	-40.86	0.0	0.0	-187.82	0.0	0.0	0.0	4157.70
		-2.291e+04	0.0	0.0	0.0	130.0	0.0	-228.68	0.0	0.0	0.0	-2.291e+04
207	18	7358.11	0.0	0.08	-40.86	0.0	0.0	-332.75	0.0	0.0	0.0	7358.11
		-3.855e+04	0.0	0.0	0.0	130.0	0.0	-373.61	0.0	0.0	0.0	-3.855e+04
207	20	1985.46	0.0	0.03	-40.86	0.0	0.0	-89.45	0.0	0.0	0.0	1985.46
		-1.230e+04	0.0	0.0	0.0	130.0	0.0	-130.31	0.0	0.0	0.0	-1.230e+04
207	21	4157.70	0.0	0.05	-40.86	0.0	0.0	-187.82	0.0	0.0	0.0	4157.70
		-2.291e+04	0.0	0.0	0.0	130.0	0.0	-228.68	0.0	0.0	0.0	-2.291e+04
208	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	-3692.27
208	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	9920.23
208	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	-3.028e+04
208	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
208	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	6355.79
208	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	-2.045e+04
208	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
208	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	-5393.31
208	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	-2719.21
209	3	0.0	0.0	-0.63	-236.51	0.0	3.44e-04	7.85e-05	0.0	0.0	0.0	0.0
		-1.301e+04	0.0	0.03	0.0	110.0	54.99	-236.51	0.0	0.0	0.0	-1.301e+04
209	4	1.149e+04	0.0	0.85	208.99	0.0	-3.04e-04	7.85e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-6.12e-03	0.0	110.0	54.99	208.99	0.0	0.0	0.0	1.149e+04
209	5	-2.29e-05	0.0	-0.34	-192.59	0.0	2.83e-04	1.51e-04	0.0	0.0	0.0	-2.29e-05
		-1.059e+04	0.0	0.03	0.0	110.0	105.38	-192.59	0.0	0.0	0.0	-1.059e+04
209	7	-1.14e-05	0.0	-0.62	-254.15	0.0	3.71e-04	1.15e-04	0.0	0.0	0.0	-1.14e-05
		-1.398e+04	0.0	0.03	0.0	110.0	80.19	-254.15	0.0	0.0	0.0	-1.398e+04
209	11	0.0	0.0	-0.42	-160.36	0.0	2.33e-04	5.78e-05	0.0	0.0	0.0	0.0
		-8819.65	0.0	0.02	0.0	110.0	40.50	-160.36	0.0	0.0	0.0	-8819.65
209	12	7515.31	0.0	0.57	136.64	0.0	-1.99e-04	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	-3.07e-03	0.0	110.0	40.50	136.64	0.0	0.0	0.0	7515.31
209	13	-1.53e-05	0.0	-0.22	-131.08	0.0	1.93e-04	1.06e-04	0.0	0.0	0.0	-1.53e-05
		-7209.40	0.0	0.02	0.0	110.0	74.09	-131.08	0.0	0.0	0.0	-7209.40
209	15	-7.63e-06	0.0	-0.41	-172.12	0.0	2.51e-04	8.21e-05	0.0	0.0	0.0	-7.63e-06
		-9466.52	0.0	0.02	0.0	110.0	57.30	-172.12	0.0	0.0	0.0	-9466.52
209	18	-3.05e-06	0.0	0.03	-33.06	0.0	4.85e-05	6.75e-05	0.0	0.0	0.0	-3.05e-06
		-1818.41	0.0	0.01	0.0	110.0	47.22	-33.06	0.0	0.0	0.0	-1818.41
209	19	0.0	0.0	-0.07	-54.76	0.0	7.97e-05	5.78e-05	0.0	0.0	0.0	0.0
		-3011.66	0.0	0.01	0.0	110.0	40.50	-54.76	0.0	0.0	0.0	-3011.66
209	20	255.33	0.0	0.13	4.64	0.0	-6.71e-06	5.78e-05	0.0	0.0	0.0	0.0
		0.0	0.0	6.92e-03	0.0	110.0	40.50	4.64	0.0	0.0	0.0	255.33
209	21	0.0	0.0	0.02	-28.36	0.0	4.12e-05	5.78e-05	0.0	0.0	0.0	0.0
		-1559.66	0.0	9.41e-03	0.0	110.0	40.50	-28.36	0.0	0.0	0.0	-1559.66
211	1	0.0	0.0	-0.05	-67.13	0.0	0.0	67.13	0.0	0.0	0.0	-3692.27
		-3692.27	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
211	4	9920.23	0.0	0.14	180.37	0.0	0.0	-180.37	0.0	0.0	0.0	9920.23
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
211	5	0.0	0.0	-0.42	-550.58	0.0	0.0	550.58	0.0	0.0	0.0	-3.028e+04
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	9.88e-06	0.0	0.0	0.0	0.0
211	9	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
211	12	6355.79	0.0	0.09	115.56	0.0	0.0	-115.56	0.0	0.0	0.0	6355.79
		0.0	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
211	13	0.0	0.0	-0.29	-371.74	0.0	0.0	371.74	0.0	0.0	0.0	-2.045e+04
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	6.63e-06	0.0	0.0	0.0	0.0
211	17	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0
211	18	0.0	0.0	-0.08	-98.06	0.0	0.0	98.06	0.0	0.0	0.0	-5393.31
		-5393.31	0.0	0.0	0.0	110.0	0.0	1.75e-06	0.0	0.0	0.0	0.0
211	21	0.0	0.0	-0.04	-49.44	0.0	0.0	49.44	0.0	0.0	0.0	-2719.21

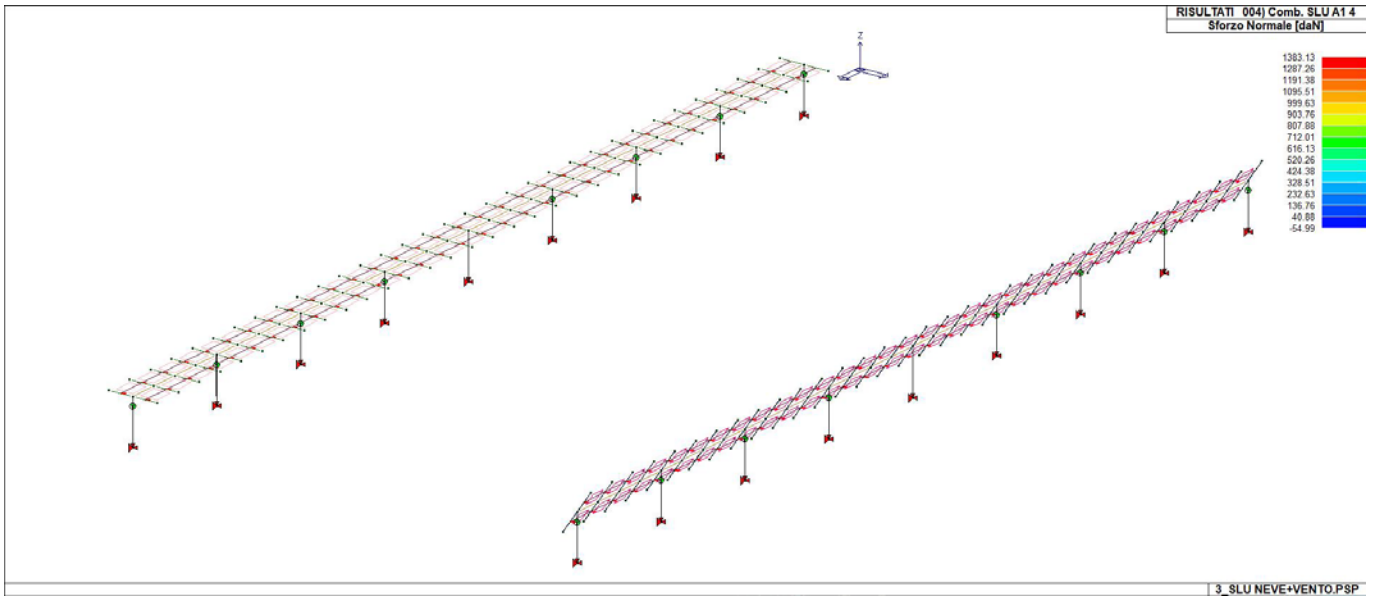
		-2719.21	0.0	0.0	0.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
212	1	5593.27	0.0	-0.06	-53.12	0.0	0.0	305.81	0.0	0.0	0.0	0.0	-3.071e+04
		-3.071e+04	0.0	0.0	0.0	130.0	0.0	252.69	0.0	0.0	0.0	0.0	5593.27
212	2	2.960e+04	0.0	-0.32	-53.12	0.0	0.0	1392.77	0.0	0.0	0.0	0.0	-1.480e+05
		-1.480e+05	0.0	0.0	0.0	130.0	0.0	1339.65	0.0	0.0	0.0	0.0	2.960e+04
212	4	4.891e+04	0.0	0.11	-53.12	0.0	0.0	-431.95	0.0	0.0	0.0	0.0	4.891e+04
		-1.070e+04	0.0	0.0	0.0	130.0	0.0	-485.07	0.0	0.0	0.0	0.0	-1.070e+04
212	5	3.742e+04	0.0	-0.40	-53.12	0.0	0.0	1746.90	0.0	0.0	0.0	0.0	-1.862e+05
		-1.862e+05	0.0	0.0	0.0	130.0	0.0	1693.78	0.0	0.0	0.0	0.0	3.742e+04
212	9	4157.70	0.0	-0.05	-40.86	0.0	0.0	228.68	0.0	0.0	0.0	0.0	-2.291e+04
		-2.291e+04	0.0	0.0	0.0	130.0	0.0	187.82	0.0	0.0	0.0	0.0	4157.70
212	10	2.016e+04	0.0	-0.22	-40.86	0.0	0.0	953.32	0.0	0.0	0.0	0.0	-1.011e+05
		-1.011e+05	0.0	0.0	0.0	130.0	0.0	912.46	0.0	0.0	0.0	0.0	2.016e+04
212	12	3.016e+04	0.0	0.07	-40.86	0.0	0.0	-263.16	0.0	0.0	0.0	0.0	3.016e+04
		-6703.48	0.0	0.0	0.0	130.0	0.0	-304.02	0.0	0.0	0.0	0.0	-6703.48
212	13	2.537e+04	0.0	-0.27	-40.86	0.0	0.0	1189.40	0.0	0.0	0.0	0.0	-1.266e+05
		-1.266e+05	0.0	0.0	0.0	130.0	0.0	1148.54	0.0	0.0	0.0	0.0	2.537e+04
212	17	4157.70	0.0	-0.05	-40.86	0.0	0.0	228.68	0.0	0.0	0.0	0.0	-2.291e+04
		-2.291e+04	0.0	0.0	0.0	130.0	0.0	187.82	0.0	0.0	0.0	0.0	4157.70
212	18	7358.11	0.0	-0.08	-40.86	0.0	0.0	373.61	0.0	0.0	0.0	0.0	-3.855e+04
		-3.855e+04	0.0	0.0	0.0	130.0	0.0	332.75	0.0	0.0	0.0	0.0	7358.11
212	20	1985.46	0.0	-0.03	-40.86	0.0	0.0	130.31	0.0	0.0	0.0	0.0	-1.230e+04
		-1.230e+04	0.0	0.0	0.0	130.0	0.0	89.45	0.0	0.0	0.0	0.0	1985.46
212	21	4157.70	0.0	-0.05	-40.86	0.0	0.0	228.68	0.0	0.0	0.0	0.0	-2.291e+04
		-2.291e+04	0.0	0.0	0.0	130.0	0.0	187.82	0.0	0.0	0.0	0.0	4157.70
213	1	0.0	0.0	0.05	-67.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3692.27	0.0	0.0	0.0	110.0	0.0	-67.13	0.0	0.0	0.0	0.0	-3692.27
213	4	9920.23	0.0	-0.14	180.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	180.37	0.0	0.0	0.0	0.0	9920.23
213	5	0.0	0.0	0.42	-550.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-3.028e+04	0.0	0.0	0.0	110.0	0.0	-550.58	0.0	0.0	0.0	0.0	-3.028e+04
213	9	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
213	12	6355.79	0.0	-0.09	115.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	0.0	115.56	0.0	0.0	0.0	0.0	6355.79
213	13	0.0	0.0	0.29	-371.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2.045e+04	0.0	0.0	0.0	110.0	0.0	-371.74	0.0	0.0	0.0	0.0	-2.045e+04
213	17	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21
213	18	0.0	0.0	0.08	-98.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-5393.31	0.0	0.0	0.0	110.0	0.0	-98.06	0.0	0.0	0.0	0.0	-5393.31
213	21	0.0	0.0	0.04	-49.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-2719.21	0.0	0.0	0.0	110.0	0.0	-49.44	0.0	0.0	0.0	0.0	-2719.21

Trave	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	-2.384e+05	-4.160e+04	-1.35	-550.58	-105.38	-2216.51	-511.39	0.0
	1.809e+05	5.620e+04	1.35	225.81	105.38	2216.51	511.39	0.0

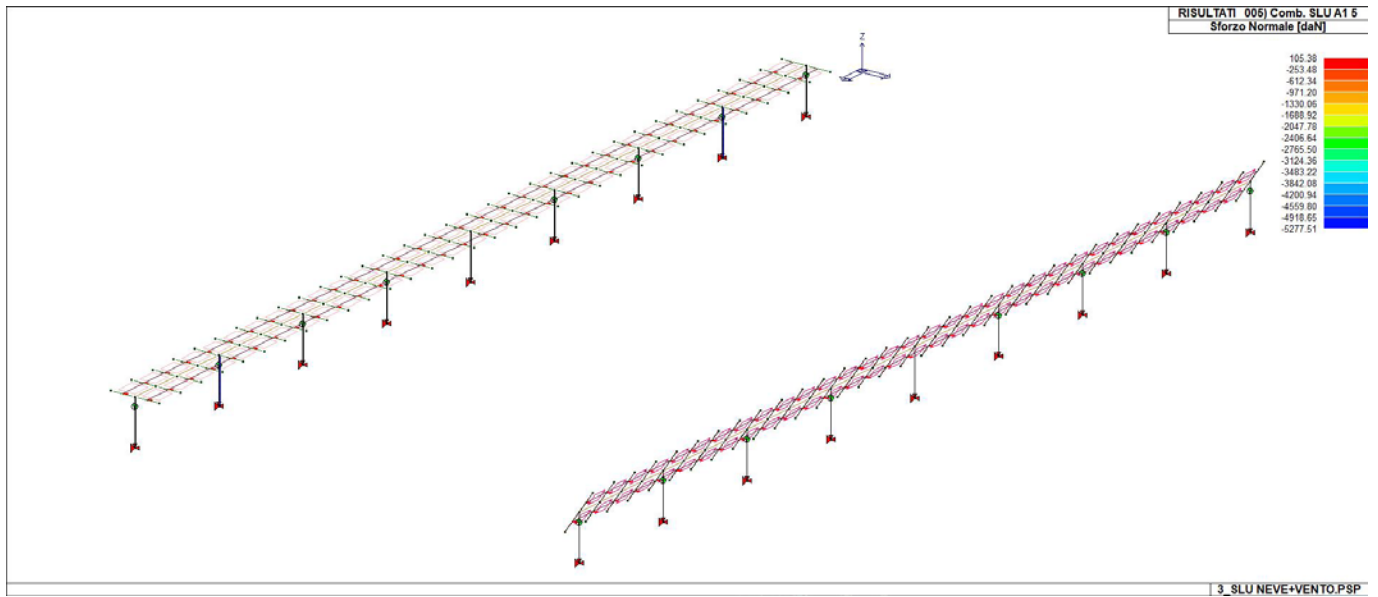




43_RIS_M3_008_Comb. SLU A1 8



43_RIS_N_004_Comb. SLU A1 4



43_RIS_N_005_Comb. SLU A1 5

VERIFICHE PER ELEMENTI IN ACCIAIO

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	Pilastri
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	X
4.2.4.1.3.3	Membrature inflesse e compresse	X	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 flesso-torsionale)			

BetaxL	B22xL	B33x L	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 flesso-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 x Omega x 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 x Omega x 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 sovraresistenza come prevista al par. 7.5.4.2 (i valori non sono normalizzati pertanto saranno maggiori uguali a gamma rd in base alla classe di duttilità)

Nel caso in cui λS sia minore di 0.2, oppure nel caso in cui la sollecitazione di calcolo NEd sia inferiore a 0.04 Ncr, gli effetti legati ai fenomeni di instabilità sono trascurati, come da paragrafo 4.2.4.1.3.1

Trave	Stato	Note	V V/T	V N/M	V stab	Cl.LamS	22LamS	33	Snell.	Chi mn	V flstLamS	LT	Chi LT	Rif. cmb
1	oks=17,m=13	7.47e-03	0.11	0.11		1	0.3	0.3	24.5	0.97	0.08	6.62e-02	1.00	7,7,0,7
2	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
3	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
4	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
5	oks=17,m=13	0.02	0.17	0.17		1	0.3	0.3	24.5	0.97	0.17	6.65e-02	1.00	5,5,0,5
6	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
7	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
8	oks=17,m=13	0.02	0.19	0.19		1	0.3	0.3	24.5	0.97	0.14	5.46e-02	1.00	7,7,0,7
9	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
10	oks=17,m=13	0.03	0.23	0.23		1	0.3	0.3	24.5	0.97	0.16	5.33e-02	1.00	7,7,0,7
11	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
12	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
13	oks=17,m=13	0.02	0.17	0.17		1	0.3	0.3	24.5	0.97	0.17	6.59e-02	1.00	5,5,0,5
14	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
15	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
16	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
17	oks=17,m=13	0.02	0.19	0.19		1	0.3	0.3	24.5	0.97	0.14	5.48e-02	1.00	7,7,0,7
18	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
19	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
20	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
21	oks=17,m=13	0.02	0.17	0.17		1	0.3	0.3	24.5	0.97	0.13	5.40e-02	1.00	7,7,0,7
22	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
23	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
24	oks=17,m=13	7.34e-03	0.11	0.11		1	0.3	0.3	24.5	0.97	0.08	6.61e-02	1.00	7,7,0,7
25	oks=17,m=13	0.05	0.29	0.29		1	0.3	0.3	24.5	0.97	0.29	5.49e-02	1.00	5,5,0,5
26	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
27	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
30	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
31	oks=17,m=13	0.05	0.29	0.29		1	0.3	0.3	24.5	0.97	0.29	5.46e-02	1.00	5,5,0,5
32	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
33	oks=17,m=13	7.22e-03	0.11	0.11		1	0.3	0.3	24.5	0.97	0.08	6.64e-02	1.00	7,7,0,7
34	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
35	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
36	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
38	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
39	oks=19,m=12	0.04	0.26	0.26		3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
40	oks=19,m=12	0.10	0.56	0.56		3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5

41	oks=17,m=13	0.02	0.18	1	0.3	0.3	24.5	0.97	0.18 6.61e-02	1.00	5,5,0,5
42	oks=17,m=13	0.02	0.18	1	0.3	0.3	24.5	0.97	0.13 5.46e-02	1.00	7,7,0,7
43	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
44	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
45	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
46	oks=17,m=13	0.01	0.18	1	0.3	0.3	24.5	0.97	0.13 6.59e-02	1.00	7,7,0,7
47	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
48	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
49	oks=17,m=13	0.02	0.18	1	0.3	0.3	24.5	0.97	0.13 5.46e-02	1.00	7,7,0,7
50	oks=17,m=13	0.01	0.18	1	0.3	0.3	24.5	0.97	0.18 6.78e-02	1.00	5,5,0,5
51	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67 0.5	0.84	5,5,0,5
52	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
53	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
54	oks=17,m=13	0.02	0.23	1	0.3	0.3	24.5	0.97	0.16 5.76e-02	1.00	7,7,0,7
55	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67 0.5	0.84	5,5,0,5
56	oks=17,m=13	0.04	0.27	1	0.3	0.3	24.5	0.97	0.27 5.33e-02	1.00	5,5,0,5
57	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
58	oks=17,m=13 7.22e-03	0.11		1	0.3	0.3	24.5	0.97	0.08 6.64e-02	1.00	7,7,0,7
59	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
60	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
63	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
64	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
65	oks=17,m=13	0.04	0.27	1	0.3	0.3	24.5	0.97	0.27 5.46e-02	1.00	5,5,0,5
66	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
67	oks=17,m=13 7.34e-03	0.11		1	0.3	0.3	24.5	0.97	0.08 6.61e-02	1.00	7,7,0,7
68	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
69	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
70	oks=17,m=13	0.01	0.18	1	0.3	0.3	24.5	0.97	0.13 6.59e-02	1.00	7,7,0,7
71	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
72	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
73	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
74	oks=17,m=13	0.02	0.19	1	0.3	0.3	24.5	0.97	0.14 5.48e-02	1.00	7,7,0,7
75	oks=17,m=13	0.01	0.14	1	0.3	0.3	24.5	0.97	0.14 6.72e-02	1.00	5,5,0,5
76	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
77	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
78	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
79	oks=17,m=13	0.03	0.23	1	0.3	0.3	24.5	0.97	0.16 5.33e-02	1.00	7,7,0,7
80	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
81	oks=17,m=13	0.02	0.14	1	0.3	0.3	24.5	0.97	0.14 5.96e-02	1.00	5,5,0,5
82	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
83	oks=17,m=13	0.02	0.19	1	0.3	0.3	24.5	0.97	0.14 5.46e-02	1.00	7,7,0,7
84	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
85	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67 0.5	0.84	5,5,0,5
86	oks=17,m=13 7.09e-03	0.11		1	0.3	0.3	24.5	0.97	0.08 6.70e-02	1.00	7,7,0,7
87	oks=17,m=13 2.19e-03	0.18		1	0.3	0.3	24.5	0.97	0.13 8.15e-02	1.00	7,7,0,7
88	oks=19,m=12	0.04	0.24	3	0.4	0.7	59.7	0.73	0.28 0.5	0.84	7,7,0,7
89	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
90	oks=17,m=13 7.47e-03	0.11		1	0.3	0.3	24.5	0.97	0.08 6.62e-02	1.00	7,7,0,7
91	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
92	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67 0.5	0.84	5,5,0,5
93	oks=17,m=13	0.05	0.36	1	0.3	0.3	24.5	0.97	0.36 5.87e-02	1.00	5,5,0,5
94	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
95	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
96	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
97	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
98	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
99	oks=17,m=13 7.09e-03	0.11		1	0.3	0.3	24.5	0.97	0.08 6.70e-02	1.00	7,7,0,7
100	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
101	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
102	oks=17,m=13	0.06	0.36	1	0.3	0.3	24.5	0.97	0.36 5.46e-02	1.00	5,5,0,5
103	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
105	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
106	oks=17,m=13	0.02	0.17	1	0.3	0.3	24.5	0.97	0.13 5.40e-02	1.00	7,7,0,7
107	oks=17,m=13 8.21e-03	0.09		1	0.3	0.3	24.5	0.97	0.07 6.18e-02	1.00	7,7,0,7
108	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
109	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
110	oks=17,m=13	0.03	0.28	1	0.3	0.3	24.5	0.97	0.28 6.48e-02	1.00	5,5,0,5
111	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
112	oks=19,m=12	0.04	0.24	3	0.4	0.7	59.7	0.73	0.28 0.5	0.84	7,7,0,7
113	oks=17,m=13	0.02	0.16	1	0.3	0.3	24.5	0.97	0.12 5.89e-02	1.00	7,7,0,7
114	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
115	oks=17,m=13	0.02	0.17	1	0.3	0.3	24.5	0.97	0.13 5.49e-02	1.00	7,7,0,7
116	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7
117	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67 0.5	0.84	5,5,0,5
118	oks=17,m=13 3.72e-03	0.28		1	0.3	0.3	24.5	0.97	0.28 8.23e-02	1.00	5,5,0,5
119	oks=19,m=12	0.06	0.35	3	0.4	0.3	36.0	0.89	0.41 0.5	0.84	5,5,0,5
120	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31 0.5	0.84	7,7,0,7

121	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
123	oks=19,m=12	0.06	0.35	3	0.4	0.3	36.0	0.89	0.41	0.5	0.84	5,5,0,5
124	oks=17,m=13	6.36e-03	0.09	1	0.3	0.3	24.5	0.97	0.07	6.65e-02	1.00	7,7,0,7
125	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
126	oks=19,m=12	0.06	0.35	3	0.4	0.3	36.0	0.89	0.41	0.5	0.84	5,5,0,5
127	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
128	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
129	oks=17,m=13	0.03	0.25	1	0.3	0.3	24.5	0.97	0.25	5.90e-02	1.00	5,5,0,5
130	oks=19,m=12	0.06	0.35	3	0.4	0.3	36.0	0.89	0.41	0.5	0.84	5,5,0,5
131	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
132	oks=17,m=13	0.03	0.25	1	0.3	0.3	24.5	0.97	0.25	5.90e-02	1.00	5,5,0,5
133	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
134	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
135	oks=17,m=13	0.02	0.17	1	0.3	0.3	24.5	0.97	0.13	5.49e-02	1.00	7,7,0,7
136	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
137	oks=17,m=13	3.72e-03	0.28	1	0.3	0.3	24.5	0.97	0.28	8.23e-02	1.00	5,5,0,5
138	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
139	oks=19,m=12	0.04	0.24	3	0.4	0.7	59.7	0.73	0.28	0.5	0.84	7,7,0,7
140	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
141	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
142	oks=17,m=13	0.03	0.28	1	0.3	0.3	24.5	0.97	0.28	6.48e-02	1.00	5,5,0,5
143	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
144	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
145	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
146	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
147	oks=17,m=13	0.06	0.36	1	0.3	0.3	24.5	0.97	0.36	5.46e-02	1.00	5,5,0,5
148	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
149	oks=17,m=13	8.21e-03	0.09	1	0.3	0.3	24.5	0.97	0.07	6.18e-02	1.00	7,7,0,7
151	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
152	oks=17,m=13	0.05	0.36	1	0.3	0.3	24.5	0.97	0.36	5.87e-02	1.00	5,5,0,5
153	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
154	oks=19,m=12	0.04	0.24	3	0.4	0.7	59.7	0.73	0.28	0.5	0.84	7,7,0,7
155	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
156	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
157	oks=17,m=13	0.02	0.14	1	0.3	0.3	24.5	0.97	0.14	5.96e-02	1.00	5,5,0,5
158	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
161	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
162	oks=17,m=13	0.01	0.14	1	0.3	0.3	24.5	0.97	0.14	6.72e-02	1.00	5,5,0,5
163	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
164	oks=17,m=13	0.02	0.16	1	0.3	0.3	24.5	0.97	0.12	5.89e-02	1.00	7,7,0,7
165	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
166	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
167	oks=17,m=13	0.04	0.27	1	0.3	0.3	24.5	0.97	0.27	5.46e-02	1.00	5,5,0,5
168	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
171	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
172	oks=17,m=13	0.04	0.27	1	0.3	0.3	24.5	0.97	0.27	5.33e-02	1.00	5,5,0,5
173	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
176	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
177	oks=17,m=13	0.01	0.18	1	0.3	0.3	24.5	0.97	0.18	6.78e-02	1.00	5,5,0,5
178	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
179	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
180	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
181	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
182	oks=17,m=13	0.02	0.18	1	0.3	0.3	24.5	0.97	0.18	6.61e-02	1.00	5,5,0,5
183	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
184	oks=17,m=13	6.36e-03	0.09	1	0.3	0.3	24.5	0.97	0.07	6.65e-02	1.00	7,7,0,7
185	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
186	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
187	oks=17,m=13	0.05	0.29	1	0.3	0.3	24.5	0.97	0.29	5.46e-02	1.00	5,5,0,5
188	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
189	oks=17,m=13	2.19e-03	0.18	1	0.3	0.3	24.5	0.97	0.13	8.15e-02	1.00	7,7,0,7
190	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
191	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
192	oks=17,m=13	0.05	0.29	1	0.3	0.3	24.5	0.97	0.29	5.49e-02	1.00	5,5,0,5
193	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
196	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
197	oks=17,m=13	0.02	0.17	1	0.3	0.3	24.5	0.97	0.17	6.59e-02	1.00	5,5,0,5
198	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
199	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
200	oks=17,m=13	0.02	0.23	1	0.3	0.3	24.5	0.97	0.16	5.76e-02	1.00	7,7,0,7
201	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
202	oks=17,m=13	0.02	0.17	1	0.3	0.3	24.5	0.97	0.17	6.65e-02	1.00	5,5,0,5
203	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
204	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
205	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
206	oks=19,m=12	0.10	0.56	3	0.4	0.3	36.0	0.89	0.67	0.5	0.84	5,5,0,5
207	oks=17,m=13	0.04	0.28	1	0.3	0.3	24.5	0.97	0.28	5.45e-02	1.00	5,5,0,5

208	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
209	oks=19,m=12	0.04	0.26	3	0.4	0.7	59.7	0.73	0.31	0.5	0.84	7,7,0,7
211	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5
212	oks=17,m=13	0.04	0.28	1	0.3	0.3	24.5	0.97	0.28	5.45e-02	1.00	5,5,0,5
213	oks=19,m=12	0.10	0.56	3	0.4	0.7	59.7	0.73	0.67	0.5	0.84	5,5,0,5

Trave	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
	0.10	0.56		0.42	0.69	59.74	0.73	0.67	0.51	0.84

Trave	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 daN	V Ed,M daN
1							0.0	0.0	0.0	0.0	0.0	0.0	0.0
2							0.0	0.0	0.0	0.0	0.0	0.0	0.0
3							0.0	0.0	0.0	0.0	0.0	0.0	0.0
4							0.0	0.0	0.0	0.0	0.0	0.0	0.0
5							0.0	0.0	0.0	0.0	0.0	0.0	0.0
6							0.0	0.0	0.0	0.0	0.0	0.0	0.0
7							0.0	0.0	0.0	0.0	0.0	0.0	0.0
8							0.0	0.0	0.0	0.0	0.0	0.0	0.0
9							0.0	0.0	0.0	0.0	0.0	0.0	0.0
10							0.0	0.0	0.0	0.0	0.0	0.0	0.0
11							0.0	0.0	0.0	0.0	0.0	0.0	0.0
12							0.0	0.0	0.0	0.0	0.0	0.0	0.0
13							0.0	0.0	0.0	0.0	0.0	0.0	0.0
14							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
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
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
45							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
47							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
49							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
51							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
53							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
55							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
57							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
59							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
63							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
65							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
67							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
69							0.0	0.0	0.0	0.0	0.0	0.0	0.0

149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157	0.0	0.0	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	0.0	0.0	0.0
161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
182	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
183	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
184	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
185	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
186	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
187	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
188	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
189	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
190	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
192	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
193	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
196	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
199	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
202	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
204	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
206	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
207	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
208	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
212	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
213	0.0	0.0	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	0.0	0.0

Pilas.	Stato	Note	V V/T	V N/M	V stab	Cl.LamS	22LamS	33	Snell.	Chi mn	V flstLamS	LT	Chi LT	Rif. cmb
28	oks=16,m=12	0.08	0.50			1	1.2	0.7	100.4	0.46	0.50	0.2	1.00	4,8,0,8
29	oks=16,m=12	0.08	0.51			1	1.2	0.7	100.4	0.46	0.51	0.2	1.00	4,8,0,8
37	oks=16,m=12	0.08	0.50			1	1.2	0.7	100.4	0.46	0.50	0.2	1.00	8,8,0,8
61	oks=16,m=12	0.08	0.50			1	1.2	0.7	100.4	0.46	0.50	0.2	1.00	8,8,0,8
62	oks=16,m=12	0.09	0.55			1	1.2	0.7	100.4	0.46	0.55	0.2	1.00	8,8,0,8
104	oks=16,m=12	0.04	0.27			1	1.2	0.7	100.4	0.46	0.27	0.2	1.00	8,8,0,8
122	oks=16,m=12	0.04	0.27			1	1.2	0.7	100.4	0.46	0.27	0.2	1.00	8,8,0,8
150	oks=16,m=12	0.0	0.05	0.11		1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,5,0
159	oks=16,m=12	0.0	0.05	0.10		1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,5,0
160	oks=16,m=12	0.0	0.04	0.10		1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,5,0
169	oks=16,m=12	0.0	0.05	0.10		1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,5,0
170	oks=16,m=12	0.0	0.04	0.10		1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,5,0
174	oks=16,m=12	0.0	0.05	0.10		1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,5,0
175	oks=16,m=12	0.0	0.05	0.11		1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,5,0

194	oks=16,m=12	0.0	0.02	1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,0,0
195	oks=16,m=12	0.0	0.02	1	1.2	0.7	100.4	0.46	0.0	0.0	0.0	4,5,0,0
210	oks=16,m=12	0.09	0.55	1	1.2	0.7	100.4	0.46	0.55	0.2	1.00	8,8,0,8
214	oks=16,m=12	0.08	0.50	1	1.2	0.7	100.4	0.46	0.50	0.2	1.00	8,8,0,8

Pilas.	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
	0.09	0.55	0.11	1.16	0.70	100.39	0.46	0.55	0.18	0.0

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. daN	Xi sovr.	Xf sovr.	Yi sovr.	Yf
28	0.0	0.0	ok	0.0	0.0			0,0,0,0					
29	0.0	0.0	ok	0.0	0.0			0,0,0,0					
37	0.0	0.0	ok	0.0	0.0			0,0,0,0					
61	0.0	0.0	ok	0.0	0.0			0,0,0,0					
62	0.0	0.0	ok	0.0	0.0			0,0,0,0					
104	0.0	0.0	ok	0.0	0.0			0,0,0,0					
122	0.0	0.0	ok	0.0	0.0			0,0,0,0					
150	0.0	0.0	ok	0.0	0.0			0,0,0,0					
159	0.0	0.0	ok	0.0	0.0			0,0,0,0					
160	0.0	0.0	ok	0.0	0.0			0,0,0,0					
169	0.0	0.0	ok	0.0	0.0			0,0,0,0					
170	0.0	0.0	ok	0.0	0.0			0,0,0,0					
174	0.0	0.0	ok	0.0	0.0			0,0,0,0					
175	0.0	0.0	ok	0.0	0.0			0,0,0,0					
194	0.0	0.0	ok	0.0	0.0			0,0,0,0					
195	0.0	0.0	ok	0.0	0.0			0,0,0,0					
210	0.0	0.0	ok	0.0	0.0			0,0,0,0					
214	0.0	0.0	ok	0.0	0.0			0,0,0,0					

Pilas.	V V/T	V N/M	V stab	V flst	V[7.5.10]	V Ed sovr.	Xi sovr.	Xf sovr.	Yi sovr.	Yf
	0.0	0.0								

STATI LIMITE D' ESERCIZIO ACCIAIO

LEGENDA TABELLA STATI LIMITE D' ESERCIZIO ACCIAIO

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

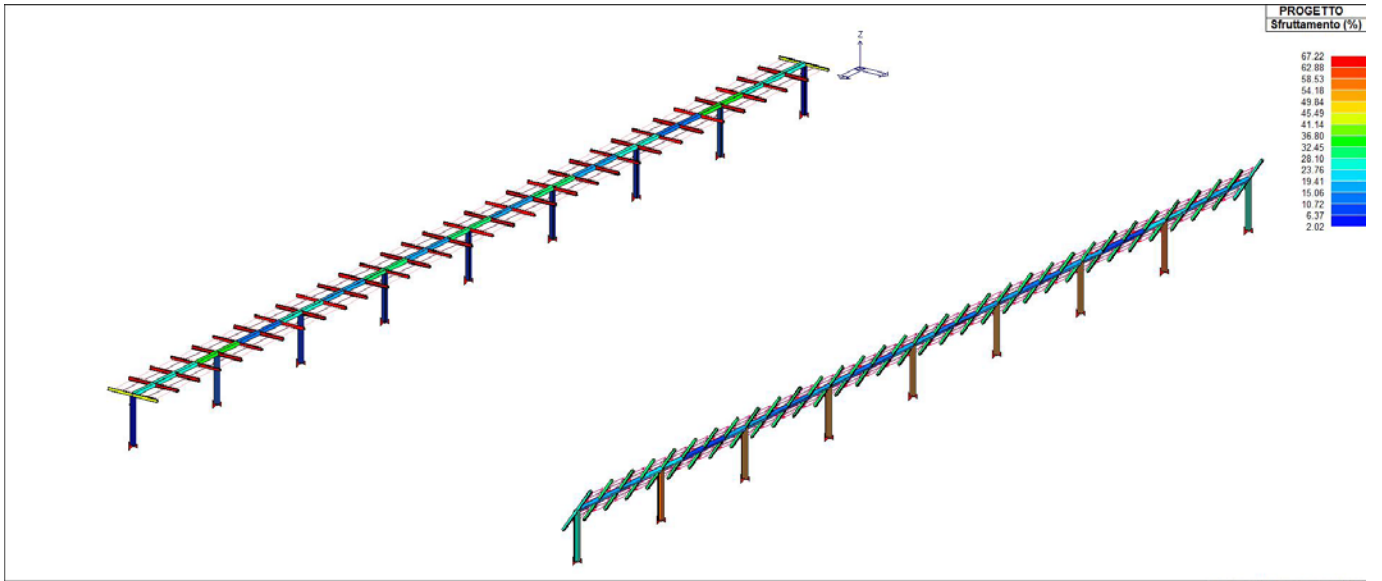
In particolare vengono riportati, per gli elementi trave, i risultati relativi alle combinazioni considerate (rare o caratteristiche).

I valori di interesse sono i seguenti:

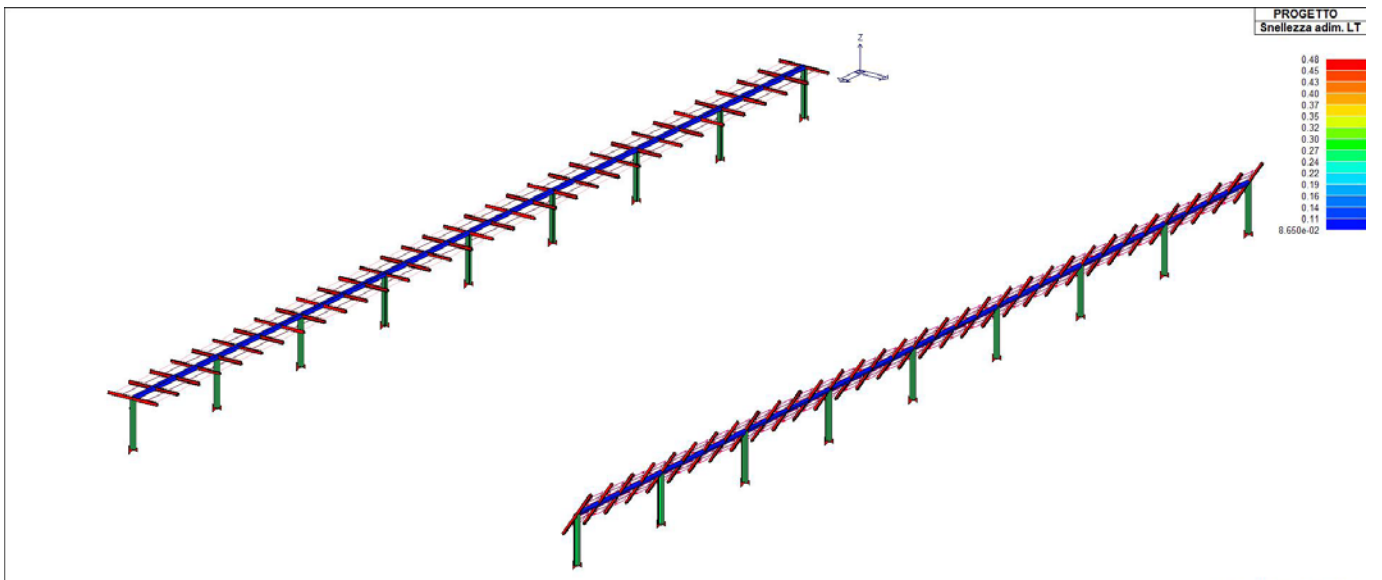
f*1000/L	massima deformazione normalizzata in combinazioni rare
-----------------	--

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).

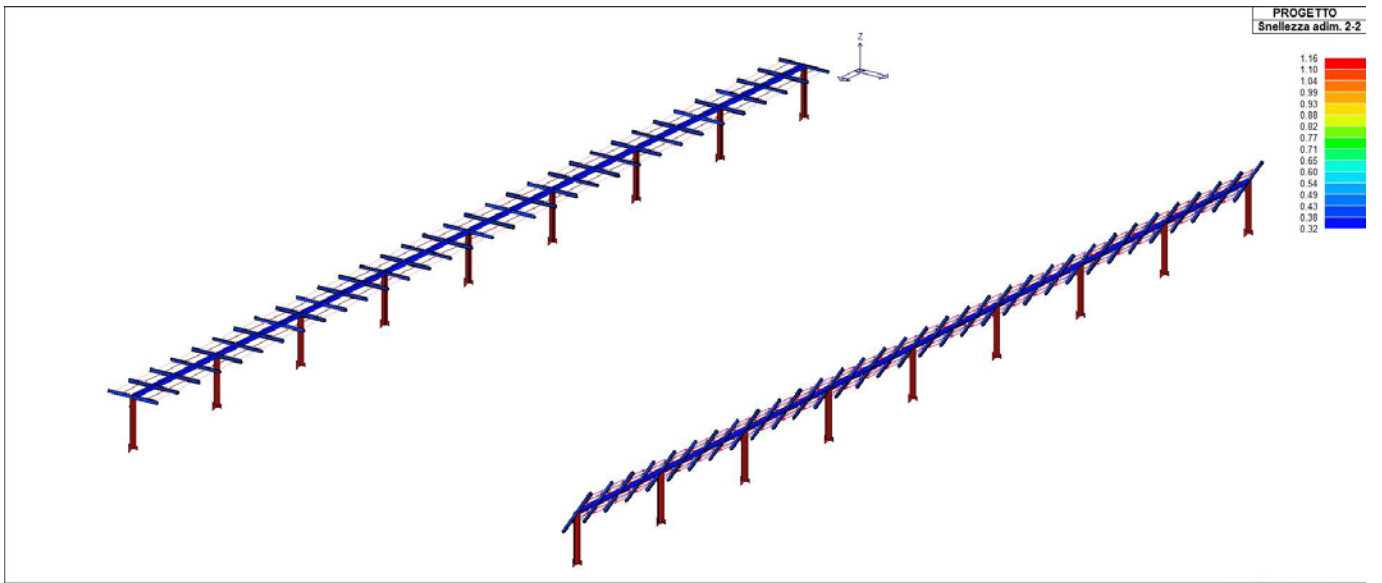
Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L	Trave	f*1000/L
1	0.8	2	5.3	3	7.1	4	2.6	5	1.6	6	2.6	7	7.1
8	1.0	9	5.3	10	1.9	11	5.3	12	2.6	13	1.6	14	7.1
15	2.6	16	7.1	17	1.0	18	5.3	19	5.3	20	7.1	21	1.1
22	2.6	23	7.1	24	0.8	25	2.0	26	2.6	27	5.3	30	2.6
31	2.3	32	7.1	33	0.8	34	5.3	35	5.3	36	2.6	38	7.1
39	7.1	40	2.6	41	1.8	42	1.0	43	5.3	44	2.6	45	7.1
46	1.4	47	2.6	48	7.1	49	1.0	50	1.6	51	2.6	52	5.3
53	5.3	54	0.4	55	2.6	56	2.5	57	7.1	58	0.8	59	5.3
60	2.6	63	2.6	64	7.1	65	1.4	66	7.1	67	0.8	68	5.3
69	2.6	70	1.4	71	7.1	72	2.6	73	7.1	74	1.0	75	1.0
76	2.6	77	5.3	78	7.1	79	1.9	80	2.6	81	1.6	82	7.1
83	1.0	84	5.3	85	2.6	86	0.8	87	1.5	88	5.2	89	7.1
90	0.8	91	5.3	92	2.6	93	0.8	94	2.6	95	5.3	96	7.1
97	5.3	98	5.3	99	0.8	100	5.3	101	2.6	102	4.8	103	2.6
105	7.1	106	1.1	107	0.6	108	2.6	109	5.3	110	4.0	111	2.6
112	7.2	113	4.1	114	7.1	115	0.8	116	5.3	117	2.6	118	1.8
119	1.6	120	7.1	121	7.1	123	1.6	124	0.7	125	5.3	126	1.6
127	2.6	128	7.1	129	7.1	130	1.6	131	2.6	132	7.1	133	2.6
134	7.1	135	0.8	136	2.6	137	1.8	138	2.6	139	5.2	140	5.3
141	2.6	142	4.0	143	2.6	144	7.1	145	7.1	146	2.6	147	4.8
148	2.6	149	0.6	151	2.6	152	0.8	153	2.6	154	7.2	155	7.1
156	2.6	157	1.6	158	2.6	161	2.6	162	1.0	163	2.6	164	4.1
165	5.3	166	2.6	167	1.4	168	2.6	171	2.6	172	2.5	173	2.6
176	2.6	177	1.6	178	2.6	179	5.3	180	7.1	181	2.6	182	1.8
183	2.6	184	0.7	185	5.3	186	2.6	187	2.3	188	2.6	189	1.5
190	5.3	191	2.6	192	2.0	193	2.6	196	2.6	197	1.6	198	2.6
199	7.1	200	0.4	201	2.6	202	1.6	203	2.6	204	5.3	205	5.3
206	2.6	207	2.1	208	2.6	209	5.3	211	2.6	212	2.1	213	2.6



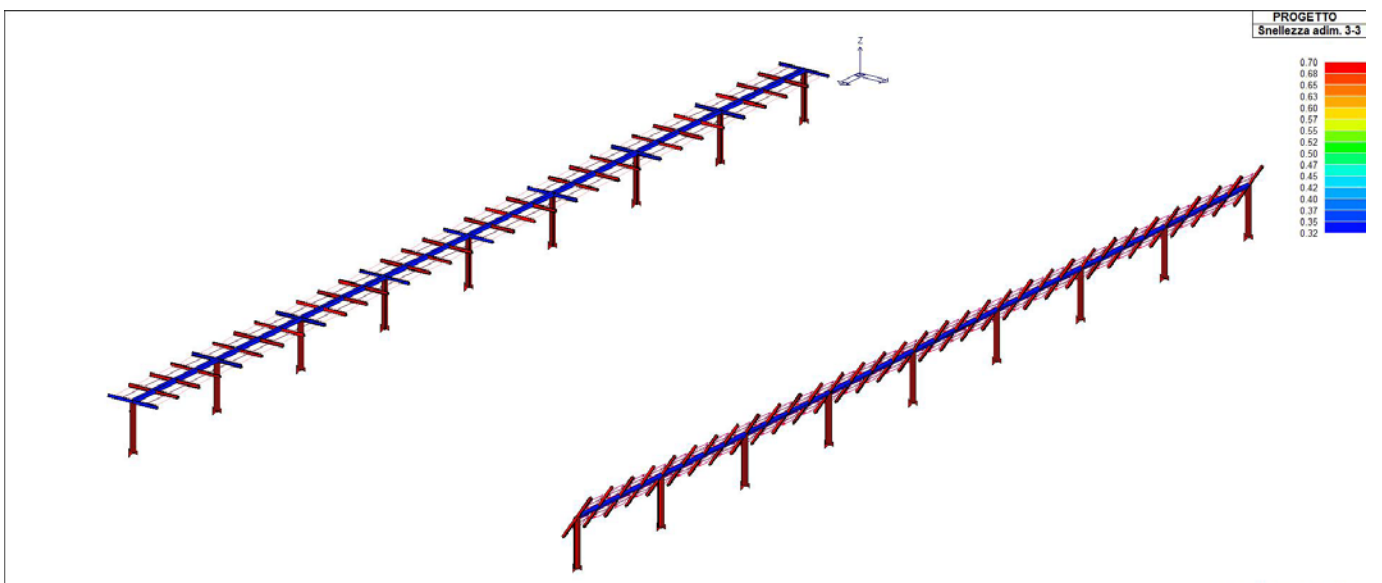
73_PRO_ST_SFRUTTAMENTO



73_PRO_ST_SNELLEZZATOR



73_PRO_ST_SNELLEZZAXX



73_PRO_ST_SNELLEZZAYY



Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 17 Gennaio 2018 cap. 10 “Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo”.

Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2021-12-194)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it
Codice Licenza:	Licenza dsi5815

Descrizione	
Progetto	CALCOLO E VERIFICA DI INSEGUITORI SOLARI (TRACKER)
Ubicazione	Comune di DELICETO (FG) (Regione PUGLIA) Località DELICETO (FG) Longitudine 15.386, Latitudine 41.222

**FASCICOLO DI CALCOLO
TOMO N.2 – VERIFICHE DI RESISTENZA TRACKER
SLV/SLD INCL. A ZERO GRADI**

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RELAZIONE DI CALCOLO STRUTTURALE

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.

Descrizione generale dell'opera

In questo **Tomo di calcolo n.2** si affrontano le verifiche degli inseguitori solari a Stato limite di salvaguardia della Vita umana e di Danno sotto azioni sismiche nella configurazione con inclinazione pari a zero gradi sull'orizzontale.

Descrizione generale dell'opera	
Ubicazione	Comune di DELICETO (FG) (Regione PUGLIA)
	Località DELICETO (FG)
	Longitudine 15.386, Latitudine 41.222
Tipo di struttura	ACCIAIO

Principali caratteristiche della struttura	
Struttura regolare in pianta	SI
Struttura regolare in altezza	SI
Classe di duttilità	NON DISSIPATIVA
Tipo di fondazione	PALI IN ACCIAIO AD ELICA
Condizioni per cui è necessario considerare la componente verticale del sisma	NO

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
II	50.0	1.0	50.0

Fattore di struttura/comportamento
La struttura portante viene calcolata come struttura con comportamento elastico, non dissipativa, con fattore di comportamento $q=1.0$ per entrambe le direzioni principali X e Y di analisi.

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

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:

$$\mathbf{K} * \mathbf{u} = \mathbf{F} \quad \text{dove} \quad \mathbf{K} = \text{matrice di rigidezza}$$

\mathbf{u} = vettore spostamenti nodali

\mathbf{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)

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	
Sismica statica lineare	SI
Sismica dinamica lineare	NO
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)	SI
Analisi lineare	SI

Modellazione della geometria e proprietà meccaniche:	
nodi	108
elementi D2 (per aste, travi, pilastri...)	107
elementi D3 (per pareti, platee, gusci...)	0
elementi solaio	64
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	500.00
Xmax =	4660.00
Ymin =	0.00
Ymax =	220.00
Zmin =	0.00
Zmax =	200.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	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	SI
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

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”*.

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)	NO
Combinazione frequente	NO
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 involuppi 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.) .

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.

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.

RELAZIONE SUI MATERIALI

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

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.

ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

Vertici della maglia elementare INGV [riferimento WGS84]

Id nodo	Longitudine	Latitudine	Distanza [km]
31441	15.351	41.220	2.926
31442	15.418	41.219	2.688
31220	15.419	41.269	5.890
31219	15.353	41.270	5.988

Coordinate geografiche [riferimento WGS84]

Località:

Longitudine: Latitudine:

Parametri per le forme spettrali

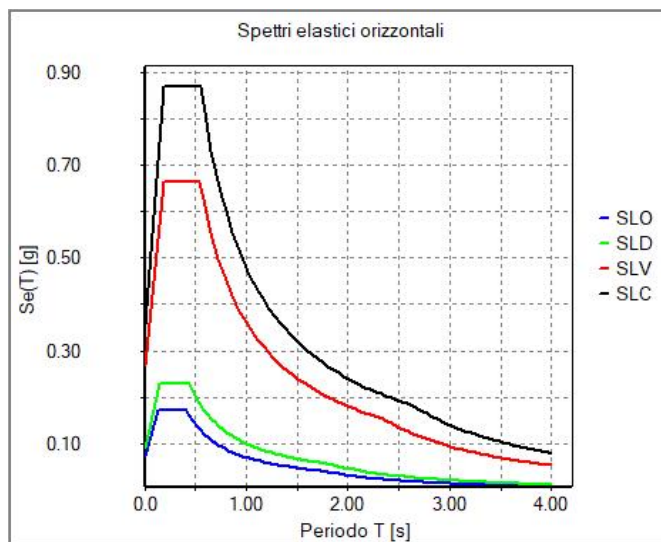
	Pver	Tr	ag [g]	Fo	T*c
SLO	81	30.11	0.0496	2.416	0.290
SLD	63	50.29	0.0626	2.534	0.320
SLV	10	474.56	0.1874	2.456	0.416
SLC	5	974.79	0.2593	2.436	0.423

Periodo di riferimento per l'azione sismica

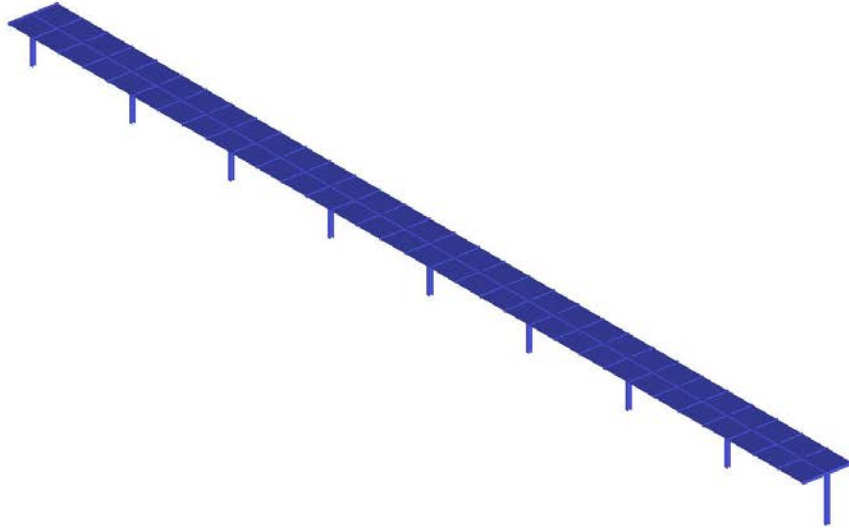
Vita Vn [anni]	Coefficiente uso Cu	Periodo Vr [anni]	Livello di sicurezza
<input type="text" value="50"/>	<input type="text" value="1"/>	<input type="text" value="50"/>	<input type="text" value="100"/>

Nota: per il calcolo dei parametri sismici
 1) inserire le coordinate geografiche 2) introdurre Vn e Cu
 Per le isole è possibile utilizzare come località: gruppo isole N [con N = 1,2,3,4,5]

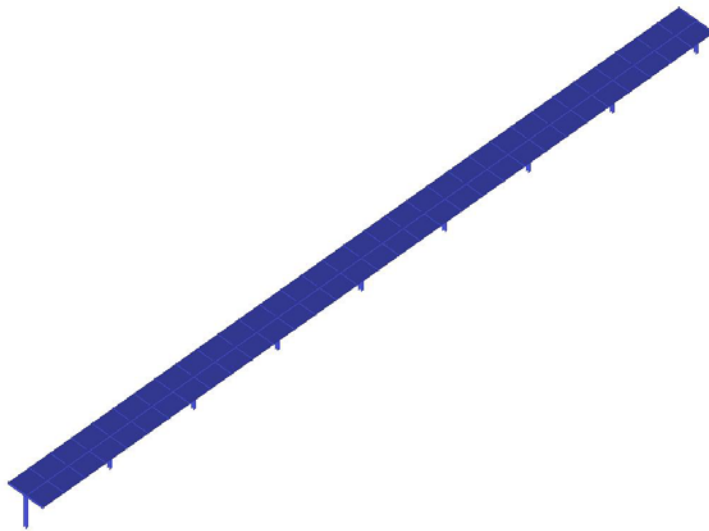
01_INT_PERICOLOSITA



01_INT_SPETTRI_ELASTICI_O



01_INT_VISTA_SOLIDATA_001



01_INT_VISTA_SOLIDATA_002

CARATTERISTICHE MATERIALI UTILIZZATI

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

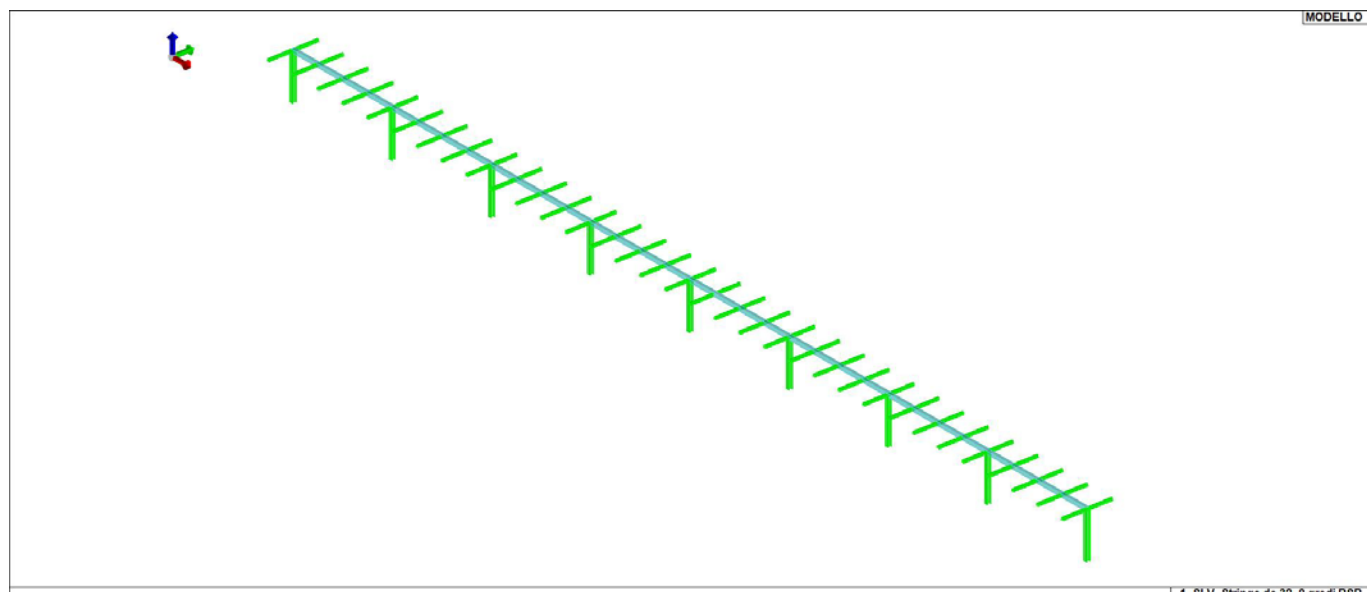
I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	c.a.	Resistenza Rc Resistenza fctm Coefficiente ksb	resistenza a compressione cubica resistenza media a trazione semplice Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft Tensione fy Resistenza fd Resistenza fd (>40) Tensione ammissibile Tensione ammissibile(>40)	Valore della tensione di rottura Valore della tensione di snervamento Resistenza di calcolo per SL CNR-UNI 10011 Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm Tensione ammissibile CNR-UNI 10011 Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura	Muratura consolidata Incremento resistenza Incremento rigidezza Resistenza f Resistenza fv0 Resistenza fh Resistenza fb Resistenza fbh Resistenza fv0h Resistenza ft Resistenza flim Resistenza fbt Coefficiente mu Coefficiente fi Coefficiente ksb	Muratura per la quale si prevedono interventi di rinforzo* Incremento conseguito in termini di resistenza Incremento conseguito in termini di rigidezza Valore della resistenza a compressione Valore della resistenza a taglio in assenza di tensioni normali Valore della resistenza a compressione orizzontale Valore della resistenza a compressione dei blocchi Valore della resistenza a compressione dei blocchi in direzione orizzontale Valore della resistenza a taglio in assenza di tensioni normali per le travi Valore della resistenza a trazione per fessurazione diagonale Valore della massima resistenza a taglio Valore della resistenza a trazione dei blocchi Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4) Coefficiente d'ingranamento utilizzato per la resistenza a taglio Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	E0,05 Resistenza fc0 Resistenza ft0 Resistenza fm Resistenza fv Resist. ft0k Resist. fmk Resist. fvk Modulo E0,05 Lamellare	Modulo di elasticità corrispondente ad un frattile del 5% Valore della resistenza a compressione parallela Valore della resistenza a trazione parallela Valore della resistenza a flessione Valore della resistenza a taglio Resistenza caratteristica (tensione amm. per REGLES) per trazione Resistenza caratteristica (tensione amm. per REGLES) per flessione Resistenza caratteristica (tensione amm. per REGLES) per taglio Modulo elastico parallelo caratteristico 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.

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
12	Acciaio Fe430 - S275-acciaio Fe430-S275			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	4300.0							
	Resistenza fd	2750.0							
	Resistenza fd (>40)	2500.0							
	Tensione ammissibile	1900.0							
	Tensione ammissibile (>40)	1700.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
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



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

Travi acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
3-3 Beta * L automatico	SI	SI	SI	SI	SI	NO
3-3 Beta assegnato	1.00	1.00	1.00	1.00	1.00	0.0
3-3 Beta assegnato [cm]	0.0	0.0	0.0	0.0	0.0	130.00
2-2 Beta * L automatico	SI	SI	SI	SI	SI	SI
2-2 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
1-1 Beta * L automatico	SI	SI	SI	SI	SI	SI
1-1 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
Generalità						
Coefficiente gamma M0	1.05	1.05	1.05	1.05	1.05	1.05
Coefficiente gamma M1	1.05	1.05	1.05	1.05	1.05	1.05
Coefficiente gamma M2	1.25	1.25	1.25	1.25	1.25	1.25
Luca di taglio per GR [cm]	0.0	1.00	1.00	1.00	1.00	0.0
Usa condizioni I e II	SI	SI	SI	SI	SI	SI
Momenti equivalenti	SI	SI	SI	SI	SI	SI

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	NO	NO	NO	NO	NO	NO
Af inf. da traliccio	SI	SI	SI	SI	SI	SI
Consenti armatura a taglio	NO	NO	NO	NO	NO	NO
Incrementa armatura longitudinale per taglio	SI	SI	SI	SI	SI	SI
Af inf. da q*L*L /	20.00	20.00	20.00	20.00	20.00	20.00
Incremento fascia piena [cm]	5.00	5.00	5.00	5.00	5.00	5.00
Armatura						
Minima tesa	0.15	0.15	0.15	0.15	0.15	0.15
Massima tesa	3.00	3.00	3.00	3.00	3.00	3.00
Minima compressa	0.0	0.0	0.0	0.0	0.0	0.0
Af/h [cm]	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
Fattore di ridistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00	85.00	85.00	85.00	85.00	85.00
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00	2600.00	2600.00	2600.00
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
Verifica freccia						
Infinita	250.00	250.00	250.00	250.00	250.00	250.00
Istantanea	500.00	500.00	500.00	500.00	500.00	500.00
Fattore viscosità	3.00	3.00	3.00	3.00	3.00	3.00
Usa J non fessurato	NO	NO	NO	NO	NO	NO
Elementi non strutturali						
Tamponatura antiespulsione	NO	NO	NO	NO	NO	NO
Tamponatura con armatura	NO	NO	NO	NO	NO	NO
Fattore di struttura/comportamento	2.00	2.00	2.00	2.00	2.00	2.00
Coefficiente gamma m	0.0	0.0	0.0	0.0	0.0	0.0
Periodo Ta	0.0	0.0	0.0	0.0	0.0	0.0
Altezza pannello	0.0	0.0	0.0	0.0	0.0	0.0

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

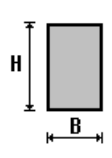
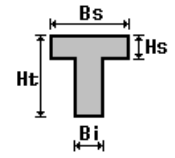
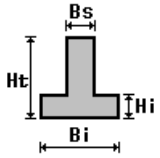
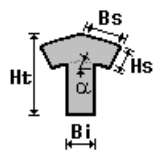
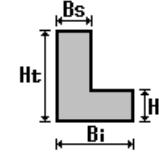
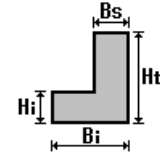
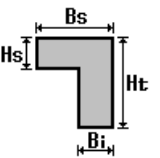
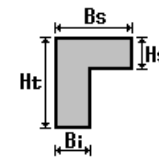
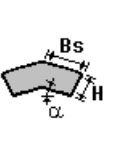
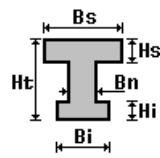
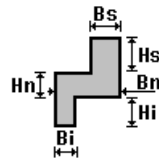
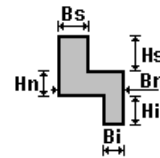
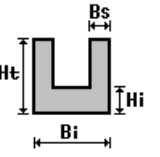
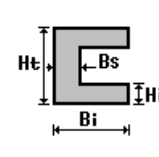
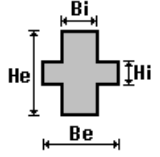
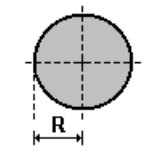
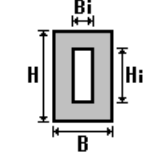
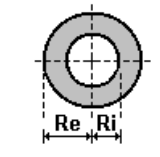
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

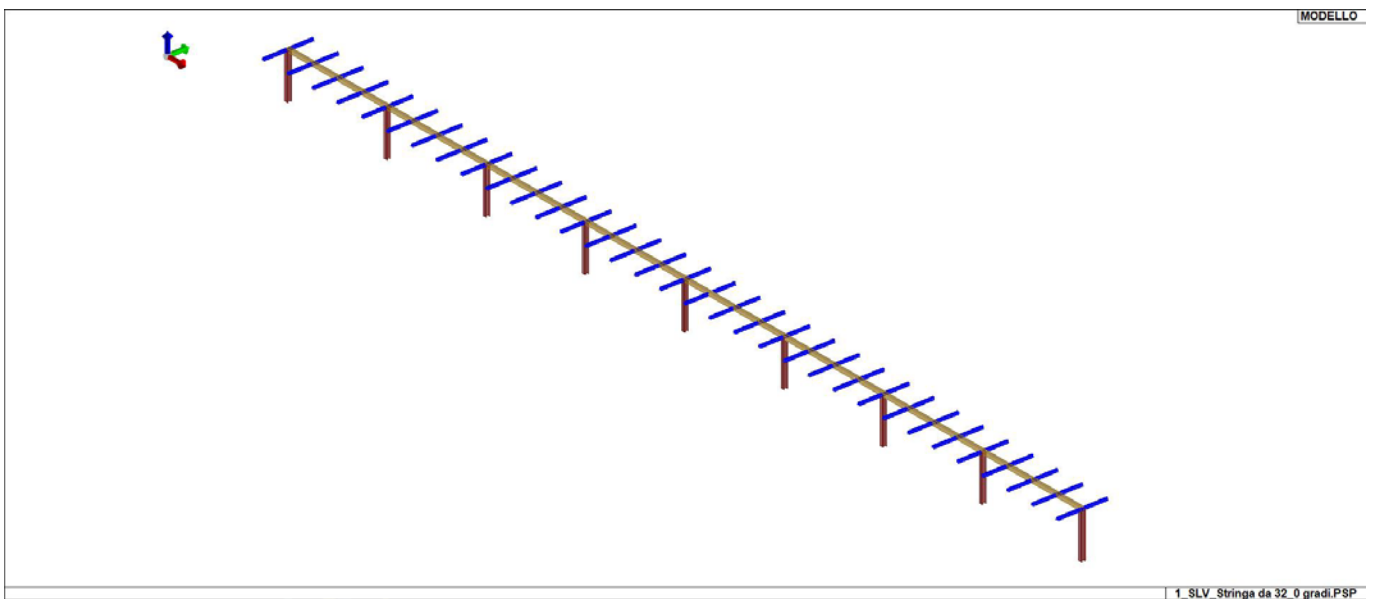
I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali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

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
16	HEA 160	38.80	0.0	0.0	12.20	616.00	1673.00	76.90	220.10	117.60	245.10
17	T.QU 140x140x8	40.04	0.0	0.0	1900.84	1126.77	1126.77	160.97	160.97	194.18	194.18
18	profilo OMG100x60x30x2.5 (Section Maker)	7.57	0.0	0.0	0.16	70.55	102.73	12.27	20.55	21.78	25.04



13_MOD_SEZIONI

MODELLAZIONE STRUTTURA: NODI

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).

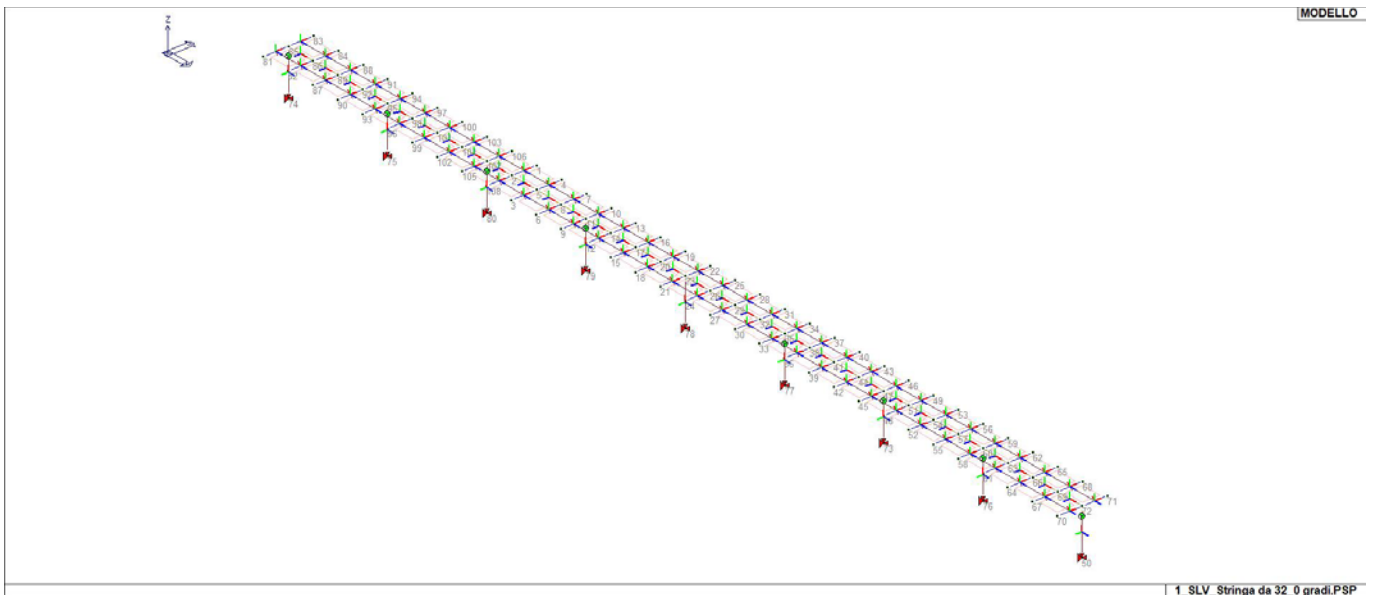
Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	1670.0	220.0	200.0	2	1670.0	110.0	200.0	3	1800.0	0.0	200.0
4	1800.0	220.0	200.0	5	1800.0	110.0	200.0	6	1930.0	0.0	200.0
7	1930.0	220.0	200.0	8	1930.0	110.0	200.0	9	2060.0	0.0	200.0
10	2060.0	220.0	200.0	11	2060.0	110.0	200.0	12	2190.0	0.0	200.0
13	2190.0	220.0	200.0	14	2190.0	110.0	200.0	15	2320.0	0.0	200.0
16	2320.0	220.0	200.0	17	2320.0	110.0	200.0	18	2450.0	0.0	200.0
19	2450.0	220.0	200.0	20	2450.0	110.0	200.0	21	2580.0	0.0	200.0
22	2580.0	220.0	200.0	23	2580.0	110.0	200.0	24	2710.0	0.0	200.0
25	2710.0	220.0	200.0	26	2710.0	110.0	200.0	27	2840.0	0.0	200.0
28	2840.0	220.0	200.0	29	2840.0	110.0	200.0	30	2970.0	0.0	200.0
31	2970.0	220.0	200.0	32	2970.0	110.0	200.0	33	3100.0	0.0	200.0
34	3100.0	220.0	200.0	35	3100.0	110.0	200.0	36	3230.0	0.0	200.0
37	3230.0	220.0	200.0	38	3230.0	110.0	200.0	39	3360.0	0.0	200.0
40	3360.0	220.0	200.0	41	3360.0	110.0	200.0	42	3490.0	0.0	200.0
43	3490.0	220.0	200.0	44	3490.0	110.0	200.0	45	3620.0	0.0	200.0
46	3620.0	220.0	200.0	47	3620.0	110.0	200.0	48	3750.0	0.0	200.0
49	3750.0	220.0	200.0	51	3750.0	110.0	200.0	52	3880.0	0.0	200.0
53	3880.0	220.0	200.0	54	3880.0	110.0	200.0	55	4010.0	0.0	200.0
56	4010.0	220.0	200.0	57	4010.0	110.0	200.0	58	4140.0	0.0	200.0
59	4140.0	220.0	200.0	60	4140.0	110.0	200.0	61	4270.0	0.0	200.0

62	4270.0	220.0	200.0	63	4270.0	110.0	200.0	64	4400.0	0.0	200.0
65	4400.0	220.0	200.0	66	4400.0	110.0	200.0	67	4530.0	0.0	200.0
68	4530.0	220.0	200.0	69	4530.0	110.0	200.0	70	4660.0	0.0	200.0
71	4660.0	220.0	200.0	72	4660.0	110.0	200.0	81	500.0	0.0	200.0
82	630.0	0.0	200.0	83	500.0	220.0	200.0	84	630.0	220.0	200.0
85	500.0	110.0	200.0	86	630.0	110.0	200.0	87	760.0	0.0	200.0
88	760.0	220.0	200.0	89	760.0	110.0	200.0	90	890.0	0.0	200.0
91	890.0	220.0	200.0	92	890.0	110.0	200.0	93	1020.0	0.0	200.0
94	1020.0	220.0	200.0	95	1020.0	110.0	200.0	96	1150.0	0.0	200.0
97	1150.0	220.0	200.0	98	1150.0	110.0	200.0	99	1280.0	0.0	200.0
100	1280.0	220.0	200.0	101	1280.0	110.0	200.0	102	1410.0	0.0	200.0
103	1410.0	220.0	200.0	104	1410.0	110.0	200.0	105	1540.0	0.0	200.0
106	1540.0	220.0	200.0	107	1540.0	110.0	200.0	108	1670.0	0.0	200.0

Nodo	X cm	Y cm	Z cm	Note	Rig. TX daN/cm	Rig. TY daN/cm	Rig. TZ daN/cm	Rig. RX daN cm/rad	Rig. RY daN cm/rad	Rig. RZ daN cm/rad
50	4660.0	110.0	0.0	v=111111						
73	3620.0	110.0	0.0	v=111111						
74	500.0	110.0	0.0	v=111111						
75	1020.0	110.0	0.0	v=111111						
76	4140.0	110.0	0.0	v=111111						
77	3100.0	110.0	0.0	v=111111						
78	2580.0	110.0	0.0	v=111111						
79	2060.0	110.0	0.0	v=111111						
80	1540.0	110.0	0.0	v=111111						



14_MOD_NUMERAZIONE_NODI

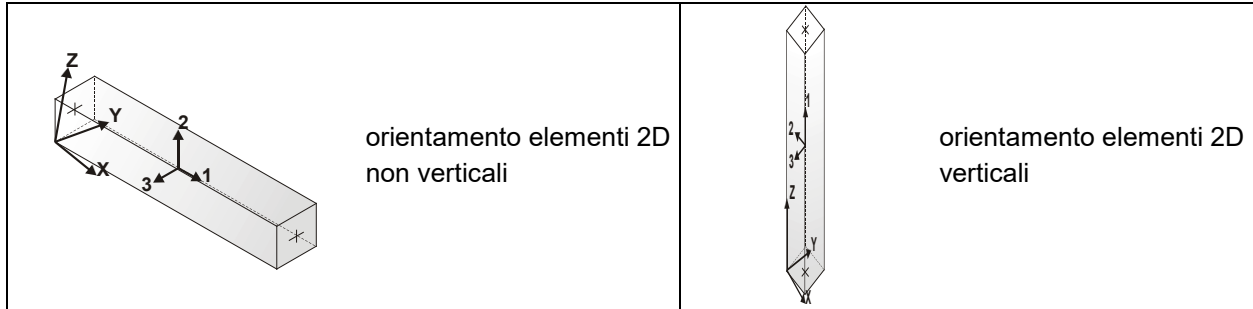
MODELLAZIONE STRUTTURALE: ELEMENTI TRAVE

TABELLA DATI TRAVI

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

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

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

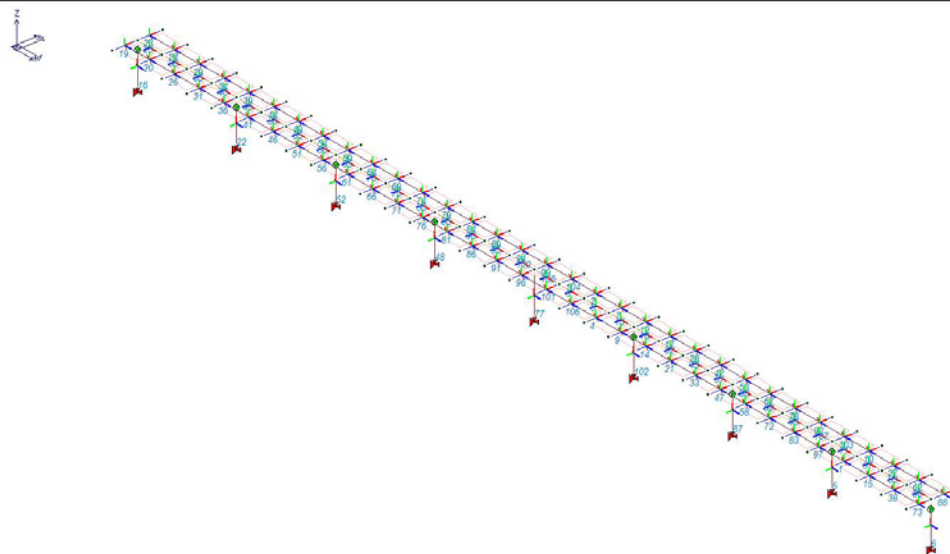


In particolare per ogni elemento viene indicato in tabella:

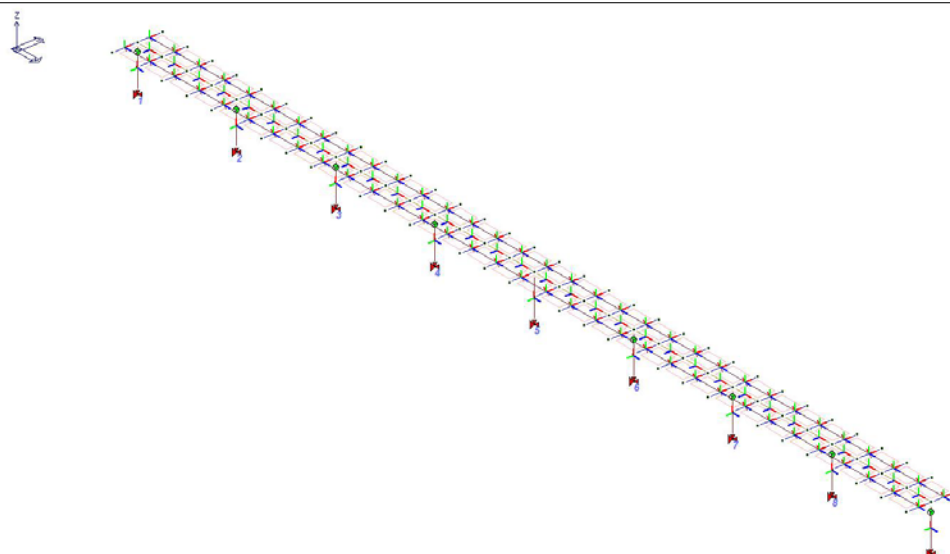
Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione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

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm ³	Wink O daN/cm ³
1	Trave	61	63	12	18	1					
2	Trave	29	28	12	18	1					
3	Trave	26	29	13	17	6					
4	Trave	30	32	12	18	1					
5	Pilas.	76	60	12	16	1	90.00		000011		
6	Pilas.	50	72	12	16	1	90.00		000011		
7	Trave	32	31	12	18	1					
8	Trave	29	32	13	17	6					
9	Trave	33	35	12	18	1					
10	Trave	63	62	12	18	1					
11	Trave	60	63	13	17	6					
12	Trave	35	34	12	18	1					
13	Trave	32	35	13	17	6					
14	Trave	36	38	12	18	1					
15	Trave	64	66	12	18	1					
16	Pilas.	74	85	12	16	1	90.00		000011		
17	Trave	38	37	12	18	1					
18	Trave	35	38	13	17	6					
19	Trave	81	85	12	18	1					
20	Trave	82	86	12	18	1					
21	Trave	39	41	12	18	1					
22	Pilas.	75	95	12	16	1	90.00		000011		
23	Trave	85	83	12	18	1					
24	Trave	86	84	12	18	1					
25	Trave	85	86	13	17	6					
26	Trave	87	89	12	18	1					
27	Trave	66	65	12	18	1					
28	Trave	41	40	12	18	1					
29	Trave	89	88	12	18	1					
30	Trave	86	89	13	17	6					

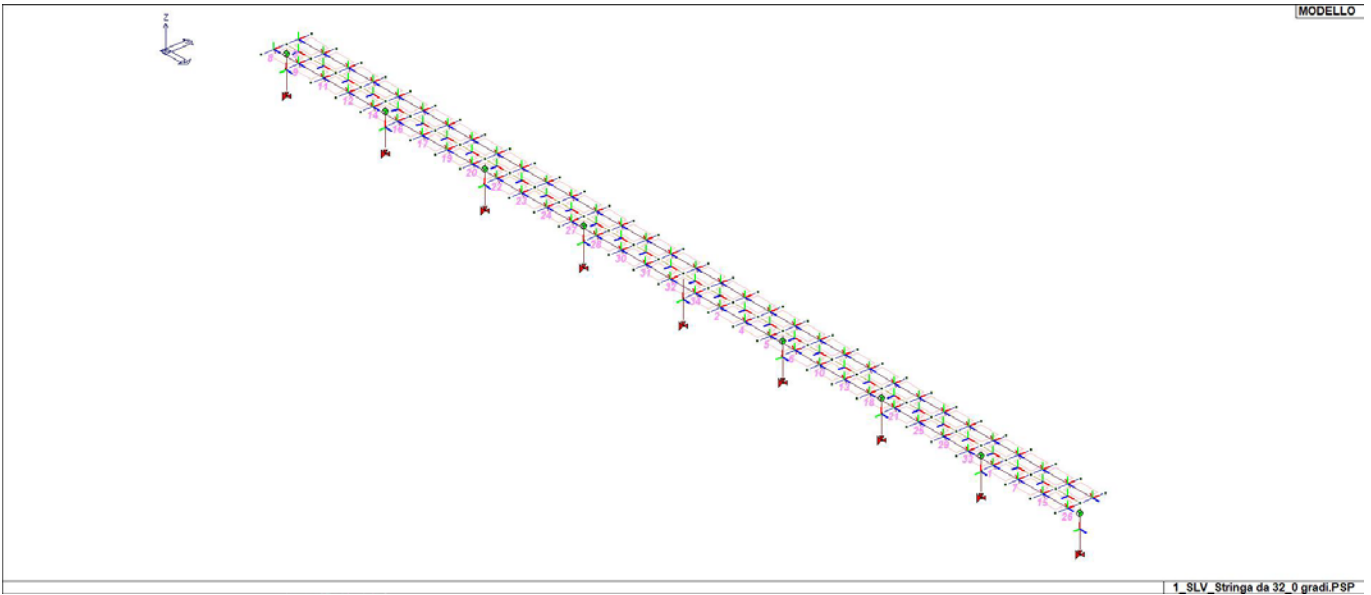
31	Trave	90	92	12	18	1		
32	Trave	38	41	13	17	6		
33	Trave	42	44	12	18	1		
34	Trave	92	91	12	18	1		
35	Trave	89	92	13	17	6		
36	Trave	93	95	12	18	1		
37	Trave	63	66	13	17	6		
38	Trave	67	69	12	18	1		
39	Trave	95	94	12	18	1		
40	Trave	92	95	13	17	6		
41	Trave	96	98	12	18	1		
42	Trave	44	43	12	18	1		
43	Trave	41	44	13	17	6		
44	Trave	98	97	12	18	1		
45	Trave	95	98	13	17	6		
46	Trave	99	101	12	18	1		
47	Trave	45	47	12	18	1		
48	Pilas.	79	11	12	16	1	90.00	000011
49	Trave	101	100	12	18	1		
50	Trave	98	101	13	17	6		
51	Trave	102	104	12	18	1		
52	Pilas.	80	107	12	16	1	90.00	000011
53	Trave	47	46	12	18	1		
54	Trave	104	103	12	18	1		
55	Trave	101	104	13	17	6		
56	Trave	105	107	12	18	1		
57	Trave	44	47	13	17	6		
58	Trave	48	51	12	18	1		
59	Trave	107	106	12	18	1		
60	Trave	104	107	13	17	6		
61	Trave	108	2	12	18	1		
62	Trave	69	68	12	18	1		
63	Trave	66	69	13	17	6		
64	Trave	2	1	12	18	1		
65	Trave	107	2	13	17	6		
66	Trave	3	5	12	18	1		
67	Trave	51	49	12	18	1		
68	Trave	47	51	13	17	6		
69	Trave	5	4	12	18	1		
70	Trave	2	5	13	17	6		
71	Trave	6	8	12	18	1		
72	Trave	52	54	12	18	1		
73	Trave	70	72	12	18	1		
74	Trave	8	7	12	18	1		
75	Trave	5	8	13	17	6		
76	Trave	9	11	12	18	1		
77	Pilas.	78	23	12	16	1	90.00	
78	Trave	54	53	12	18	1		
79	Trave	11	10	12	18	1		
80	Trave	8	11	13	17	6		
81	Trave	12	14	12	18	1		
82	Trave	51	54	13	17	6		
83	Trave	55	57	12	18	1		
84	Trave	14	13	12	18	1		
85	Trave	11	14	13	17	6		
86	Trave	15	17	12	18	1		
87	Pilas.	73	47	12	16	1	90.00	000011
88	Trave	72	71	12	18	1		
89	Trave	17	16	12	18	1		
90	Trave	14	17	13	17	6		
91	Trave	18	20	12	18	1		
92	Trave	57	56	12	18	1		
93	Trave	54	57	13	17	6		
94	Trave	20	19	12	18	1		
95	Trave	17	20	13	17	6		
96	Trave	21	23	12	18	1		
97	Trave	58	60	12	18	1		
98	Trave	69	72	13	17	6		
99	Trave	23	22	12	18	1		
100	Trave	20	23	13	17	6		
101	Trave	24	26	12	18	1		
102	Pilas.	77	35	12	16	1	90.00	000011
103	Trave	60	59	12	18	1		
104	Trave	26	25	12	18	1		
105	Trave	23	26	13	17	6		
106	Trave	27	29	12	18	1		
107	Trave	57	60	13	17	6		



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_PILASTRATE



15_MOD_NUMERAZIONE_D2_TRAVATE

1_SLV_Stringa da 32_0 gradi PSP

MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

LEGENDA TABELLA DATI SOLAI-PANNELLI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello.

Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.

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

L'elemento balcone è derivato dall'elemento solaio.

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

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

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico Variab. Carico variabile generico Var. rid. Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...) Neve Carico di neve
G1k	carico permanente (comprensivo del peso proprio)
G2k	carico permanente non strutturale e non compiutamente definito
Qk	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore raro
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore

frequente	
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore quasi permanente
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: per la definizione delle masse sismiche
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

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

Elem	numero dell'elemento
Tipo	codice di comportamento S elemento utilizzato solo per scarico C elemento utilizzato per scarico e per modellazione piano rigido P elemento utilizzato come pannello M scarico monodirezionale B scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
Gk	carico permanente solaio (comprensivo del peso proprio)
Qk	carico variabile solaio
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

Nel caso in cui si sia proceduto alla progettazione dei solai con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale); nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite vengono riportati il rapporto x/d e le verifiche per sollecitazioni proporzionali nonché le verifiche in esercizio.

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

Elem.	numero identificativo dell'elemento
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
Pos.	Ascissa del punto di verifica
F ist, F infi	Frecce istantanee e a tempo infinito
Momento	Momento flettente
Taglio	Sollecitazione di taglio
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup.	Area di armatura longitudinale posta all'estradosso della trave
AfV	Area dell'armatura atta ad assorbire le azioni di taglio
Beff	Base della sezione di cls per l'assorbimento del taglio
simboli utilizzati con il metodo delle tensioni ammissibili:	
sc max	Massima tensione di compressione del calcestruzzo
sf max	Massima tensione nell'acciaio
tau max	Massima tensione tangenziale nel cls
simboli utilizzati con il metodo degli stati limite:	
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto S_d/S_u con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
Verif.V	rapporto S_d/S_u con sollecitazioni taglianti proporzionali

	valore minore o uguale a 1 per verifica positiva
rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rFfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni frequenti [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
rFyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 17.01.2018 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica confronta i momenti sollecitanti indotti dal sisma con i momenti resistenti, secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinematismo a seguito della formazione di tre cerniere plastiche sulla tamponatura (rif. Ufficio di Vigilanza sulle Costruzioni, Provincia di Terni).

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):

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

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

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

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

Elem.	Numero identificativo dell'elemento
Stato	Codice di verifica
Ver. c.c.	Verifica nell'ipotesi di trave appoggiata con carico concentrato in mezzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. c.cin.	Verifica nell'ipotesi di cinematismo con formazione di cerniere plastiche in appoggio e mezzeria
Ver. CIS	Rapporto pa/pr (valore minore o uguale a 1 per verifica positiva)
Z	Quota del baricentro dell'elemento
T1	Periodo proprio dell'edificio nella direzione di interesse (ortogonale al pannello)
Ta	Periodo proprio della parete
Sa	Accelerazione massima, adimensionalizzata allo SLV
pa	Pressione sulla parete causata dall'azione sismica

pr	Pressione resistente del meccanismo ad arco
Drift	Spostamento relativo interpiano allo SLV valutato secondo il D.M. 14.01.2018 - § 7.3.3.3
Beta a	Coef. riduttivo per tener conto del danneggiamento del piano dipendente dallo spostamento, ottenuto sperimentalmente

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
8	Neve	daN/cm2 2.00e-03	daN/cm2 1.00e-03	daN/cm2 1.70e-02		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	82	86	85	81	
2	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	86	84	83	85	
3	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	12	14	11	9	
4	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	14	13	10	11	
5	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	61	63	60	58	
6	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	63	62	59	60	
7	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	87	89	86	82	
8	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	89	88	84	86	
9	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	15	17	14	12	
10	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	17	16	13	14	
11	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	64	66	63	61	
12	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	66	65	62	63	
13	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	90	92	89	87	
14	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	92	91	88	89	
15	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	18	20	17	15	
16	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	20	19	16	17	
17	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	67	69	66	64	
18	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	69	68	65	66	
19	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	93	95	92	90	
20	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	95	94	91	92	
21	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	21	23	20	18	
22	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	23	22	19	20	
23	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	70	72	69	67	
24	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	72	71	68	69	
25	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	96	98	95	93	
26	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	98	97	94	95	
27	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	24	26	23	21	
28	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	26	25	22	23	
29	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	27	29	26	24	
30	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	29	28	25	26	
31	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	99	101	98	96	
32	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	101	100	97	98	
33	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	30	32	29	27	
34	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	32	31	28	29	
35	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	33	35	32	30	
36	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	35	34	31	32	
37	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	102	104	101	99	
38	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	104	103	100	101	
39	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	36	38	35	33	
40	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	38	37	34	35	
41	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	39	41	38	36	
42	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	41	40	37	38	
43	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	105	107	104	102	
44	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	107	106	103	104	
45	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	42	44	41	39	
46	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	44	43	40	41	
47	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	45	47	44	42	
48	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	47	46	43	44	
49	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	108	2	107	105	
50	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	2	1	106	107	
51	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	48	51	47	45	
52	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	51	49	46	47	
53	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	3	5	2	108	
54	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	5	4	1	2	
55	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	52	54	51	48	
56	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	54	53	49	51	
57	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	6	8	5	3	
58	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	8	7	4	5	
59	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	55	57	54	52	

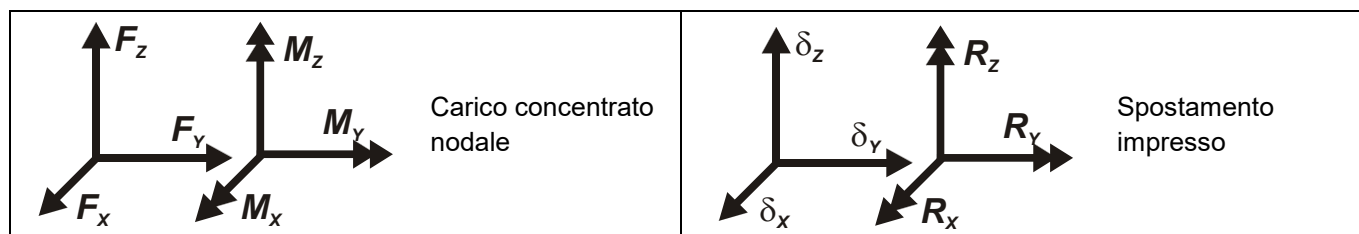
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62	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	11	10	7	8
63	SM	8	m=12	1.0	0.0	2.00e-03	1.00e-03	1.70e-02	58	60	57	55
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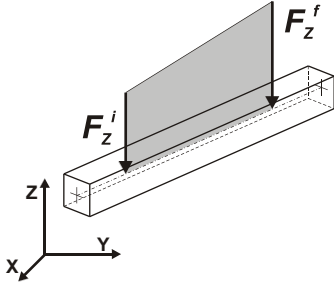
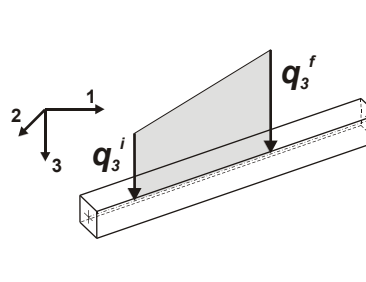
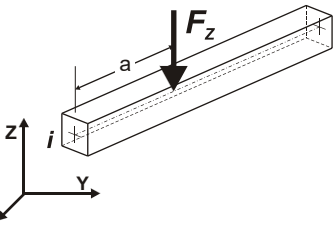
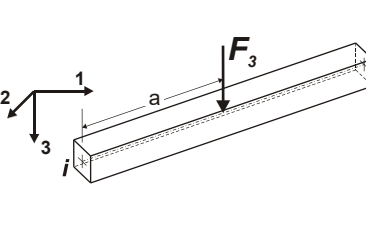
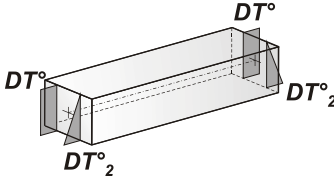
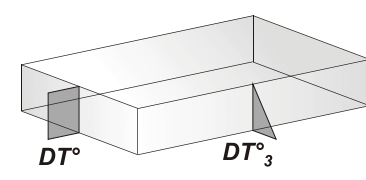
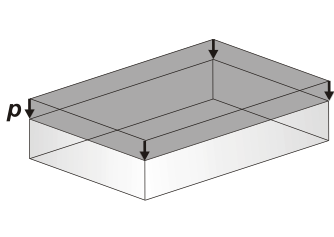
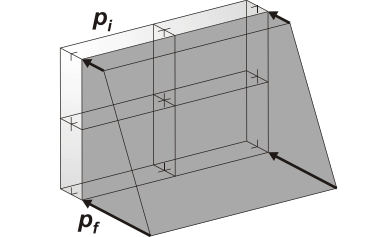
MODELLAZIONE DELLE AZIONI

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 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 (f_x , f_y , f_z , m_x , m_y , m_z , ascissa di inizio carico) 7 dati (f_x , f_y , f_z , m_x , m_y , m_z , ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati (f_1 , f_2 , f_3 , m_1 , m_2 , m_3 , ascissa di inizio carico) 7 dati (f_1 , f_2 , f_3 , m_1 , m_2 , m_3 , ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati (F_x , F_y , F_z , M_x , M_y , M_z , ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati (F_1 , F_2 , F_3 , M_1 , M_2 , M_3 , 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)



 <p>Carico distribuito globale</p>	 <p>Carico distribuito locale</p>
 <p>Carico concentrato globale</p>	 <p>Carico concentrato locale</p>
 <p>Carico termico 2D</p>	 <p>Carico termico 3D</p>
 <p>Carico pressione uniforme</p>	 <p>Carico pressione variabile</p>

Tipo carico distribuito locale su trave

Id	Tipo	Pos.	f1	f2	f3	m1	m2	m3
		cm	daN/cm	daN/cm	daN/cm	daN	daN	daN
21	DL:F2i=-1.20 F2f=-1.20	0.0	0.0	-1.20	0.0	0.0	0.0	0.0
		0.0	0.0	-1.20	0.0	0.0	0.0	0.0
22	DL:F2i=1.50 F2f=1.50	0.0	0.0	1.50	0.0	0.0	0.0	0.0
		0.0	0.0	1.50	0.0	0.0	0.0	0.0

SCHEMATIZZAZIONE DEI CASI DI CARICO

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:

	Sigla	Tipo	Descrizione
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).

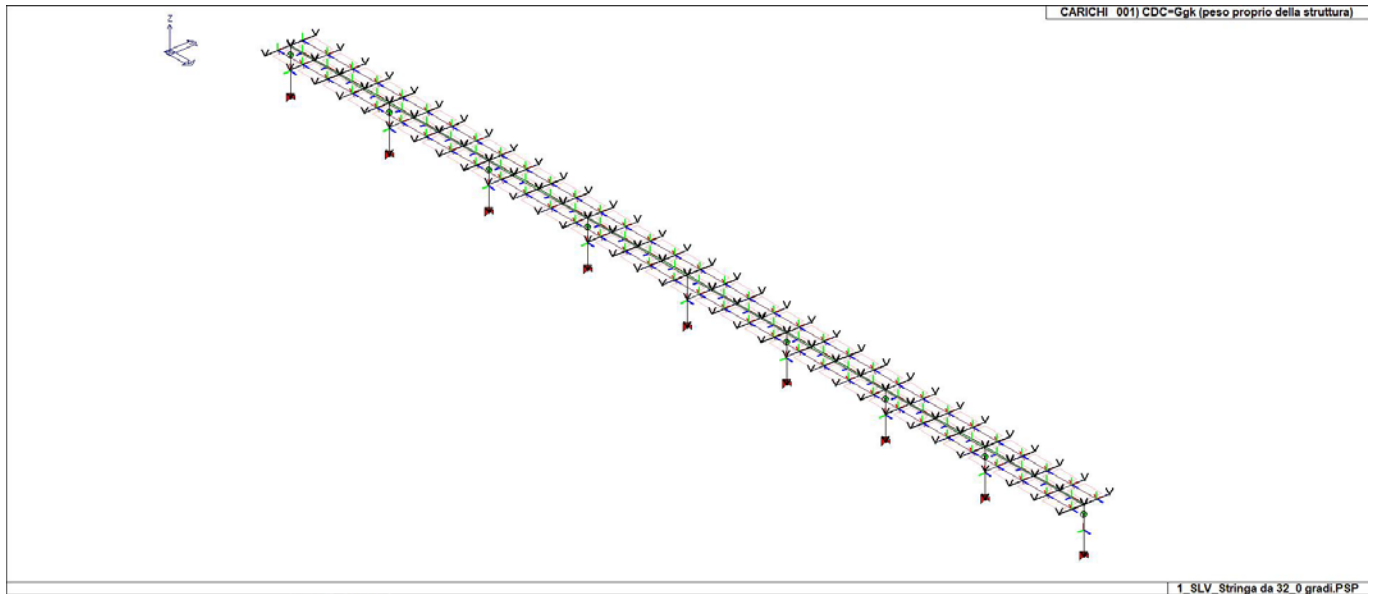
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

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.

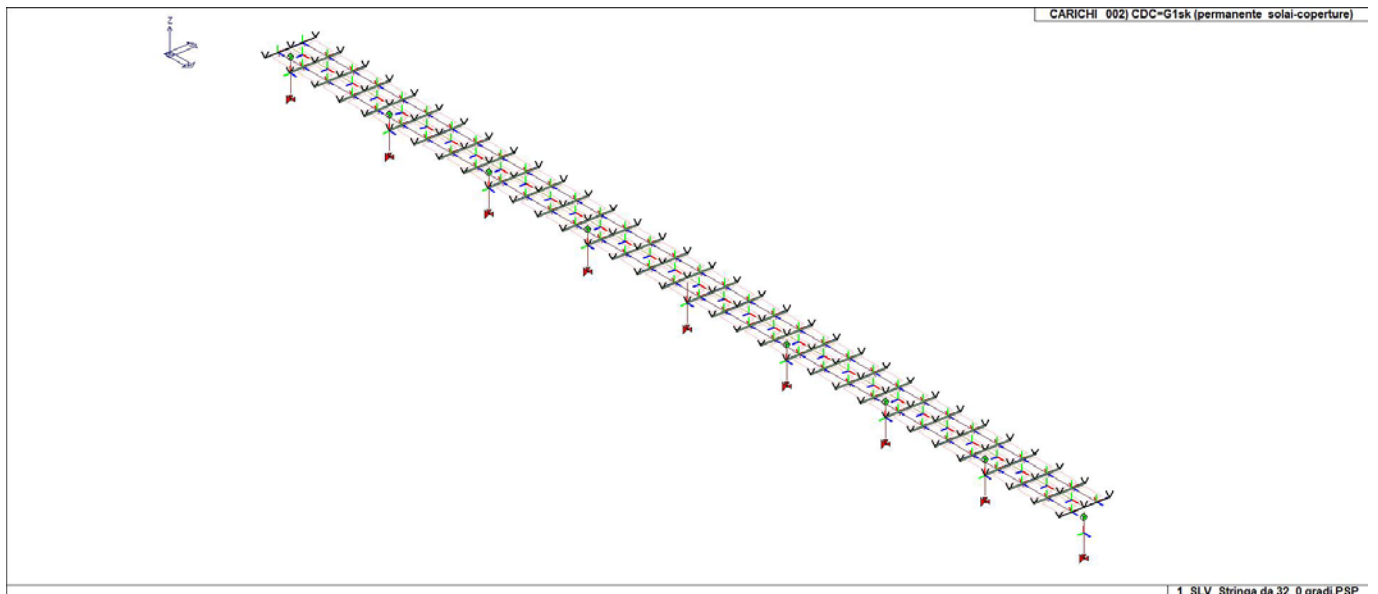
CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qnk	CDC=Qnk (carico da neve)	
5	Qk	CDC=Qkv+ (vento in pressione)	Azioni applicate:
			D2 :da 1 a 2 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 4 Azione : DL:F2i=-1.20 F2f=-1.20

CDC	Tipo	Sigla Id	Note
			D2 : 7 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 9 a 10 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 12 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 14 a 15 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 17 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 19 a 21 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 23 a 24 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 26 a 29 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 31 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 33 a 34 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 36 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 38 a 39 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 41 a 42 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 44 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 46 a 47 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 49 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 51 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 53 a 54 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 56 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 58 a 59 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 61 a 62 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 64 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 66 a 67 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 69 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 71 a 74 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 76 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 78 a 79 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 81 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 83 a 84 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 86 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 88 a 89 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 91 a 92 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 94 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 96 a 97 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 99 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 101 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 103 a 104 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 106 Azione : DL:F2i=-1.20 F2f=-1.20
6	Qk	CDC=Qkv- (vento in depressione)	Azioni applicate:
			D2 :da 1 a 2 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 4 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 7 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 9 a 10 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 12 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 14 a 15 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 17 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 19 a 21 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 23 a 24 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 26 a 29 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 31 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 33 a 34 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 36 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 38 a 39 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 41 a 42 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 44 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 46 a 47 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 49 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 51 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 53 a 54 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 56 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 58 a 59 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 61 a 62 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 64 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 66 a 67 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 69 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 71 a 74 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 76 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 78 a 79 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 81 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 83 a 84 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 86 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 88 a 89 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 91 a 92 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 94 Azione : DL:F2i=1.50 F2f=1.50

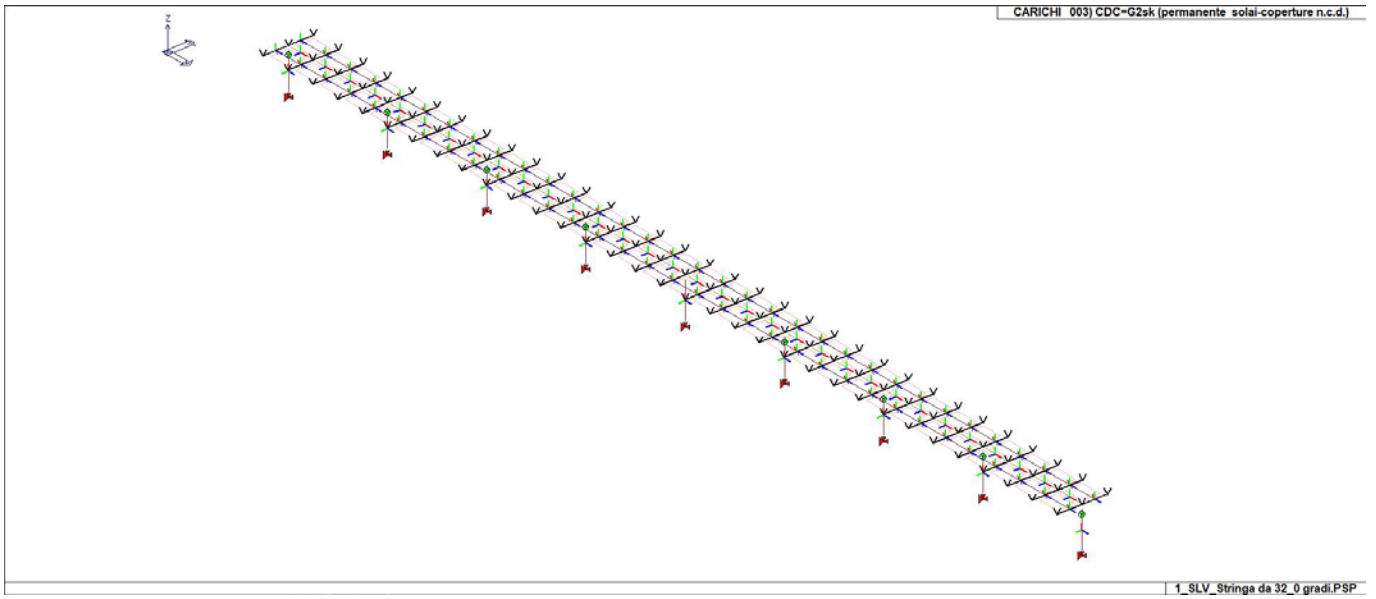
CDC	Tipo	Sigla Id	Note
			D2 :da 96 a 97 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 99 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 101 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 103 a 104 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 106 Azione : DL:F2i=1.50 F2f=1.50
7	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=Qnk (carico da neve)
8	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
9	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
10	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
11	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
12	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
13	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
14	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico



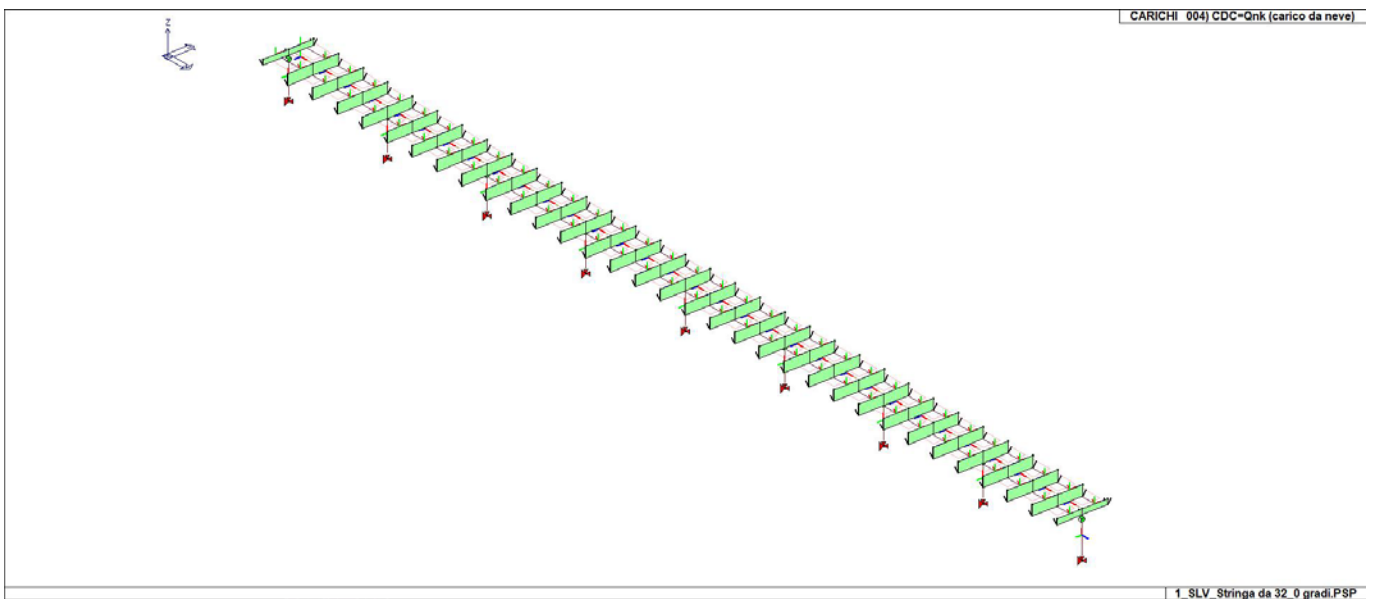
22_CDC_001_CDC=Ggk (peso proprio della struttura)



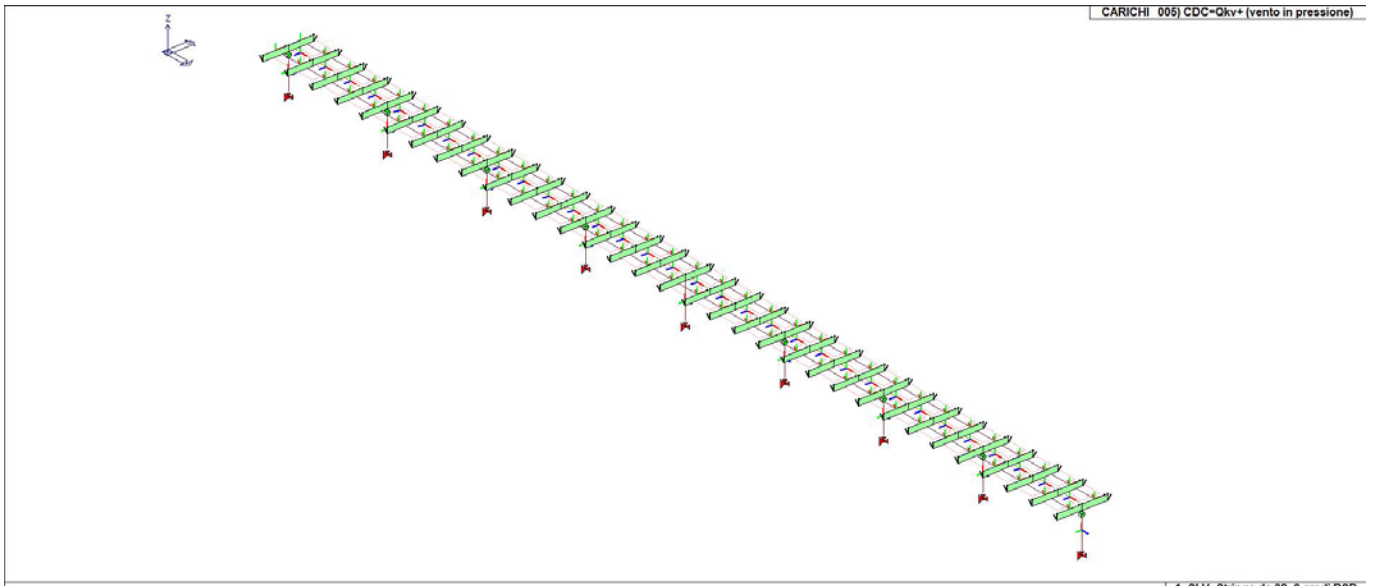
22_CDC_002_CDC=G1sk (permanente solai-coperture)



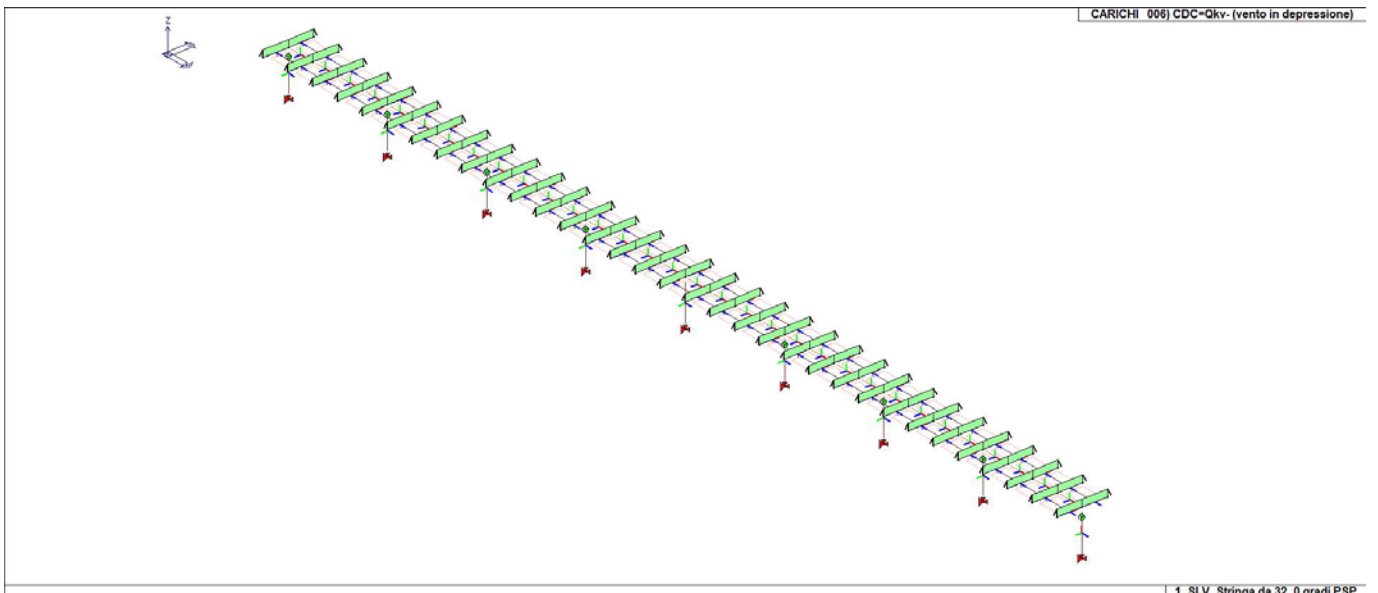
22_CDC_003_CDC=G2sk (permanente solai-coperture n.c.d.)



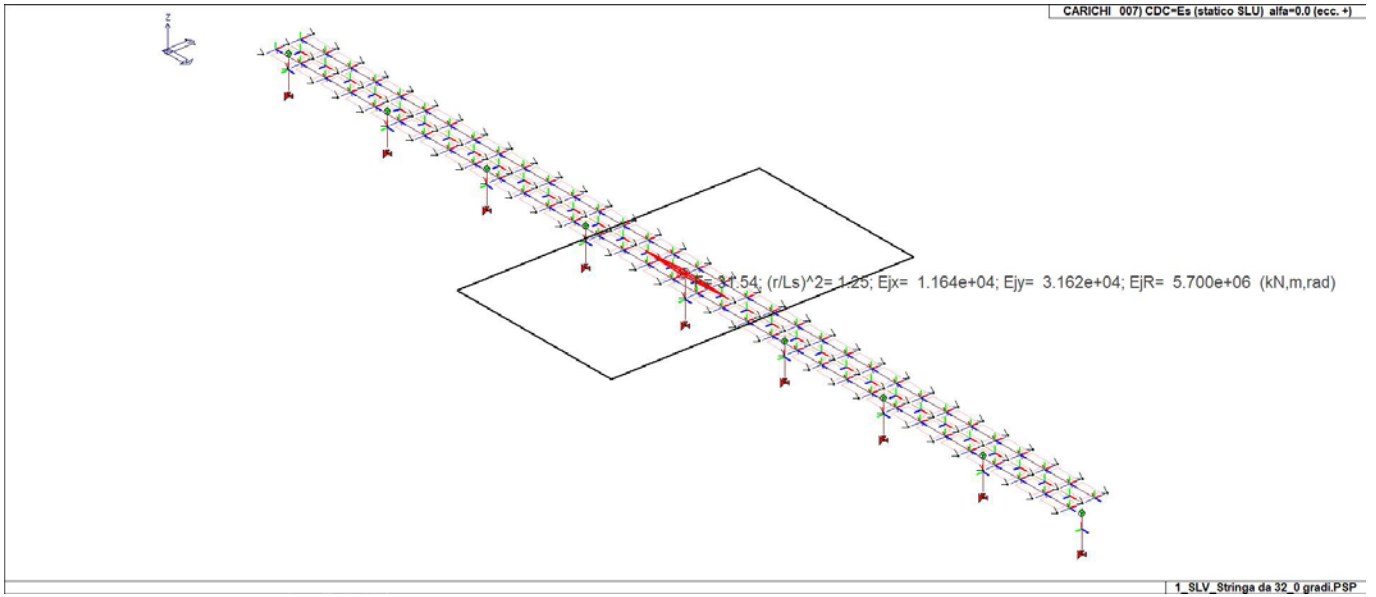
22_CDC_004_CDC=Qnk (carico da neve)



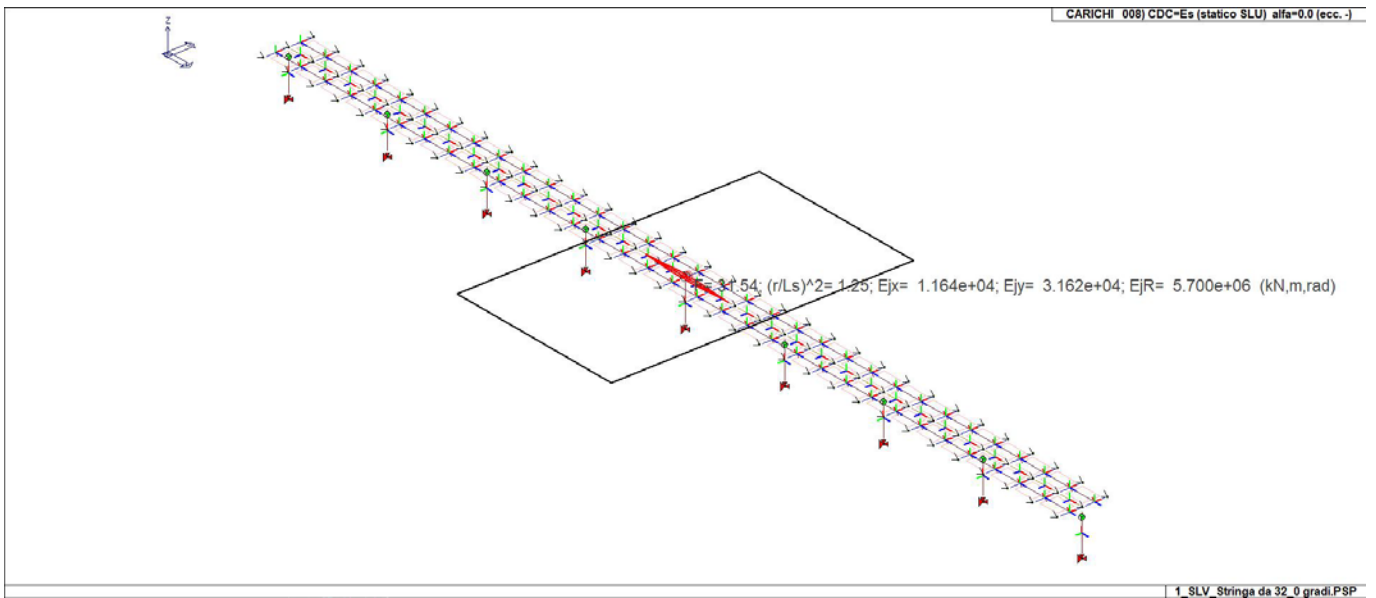
22_CDC_005_CDC=Qkv+ (vento in pressione)



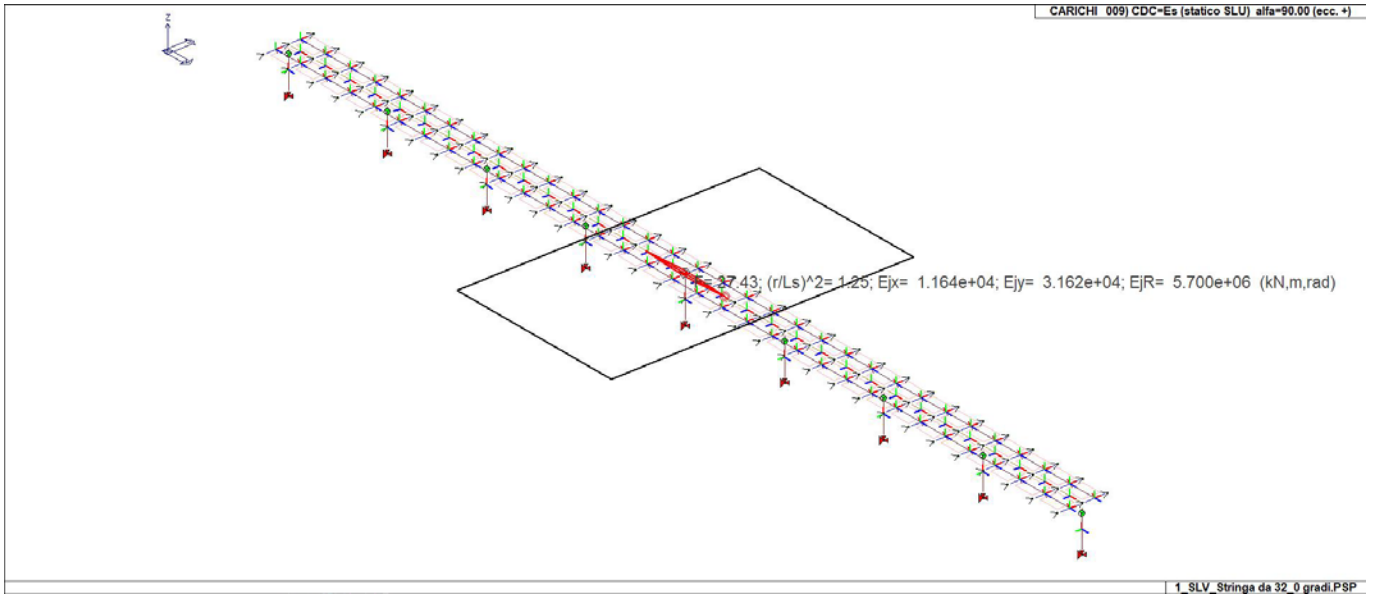
22_CDC_006_CDC=Qkv- (vento in depressione)



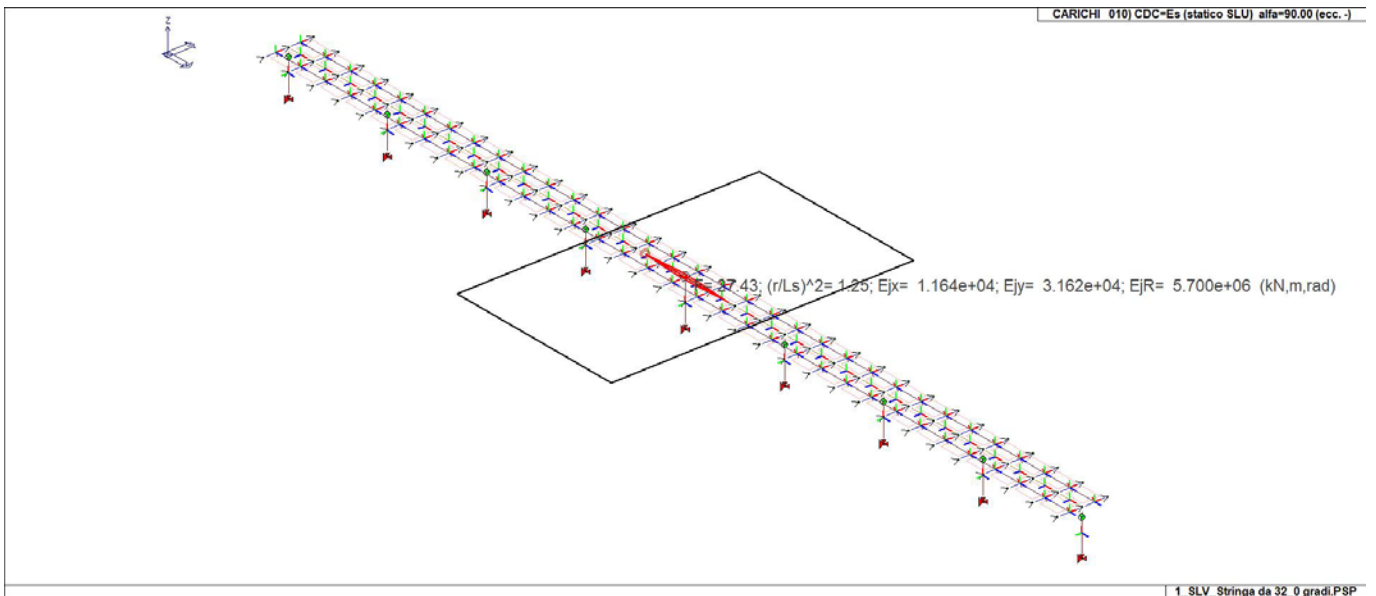
22_CDC_007_CDC=Es (statico SLU) alfa=0.0 (ecc. +)



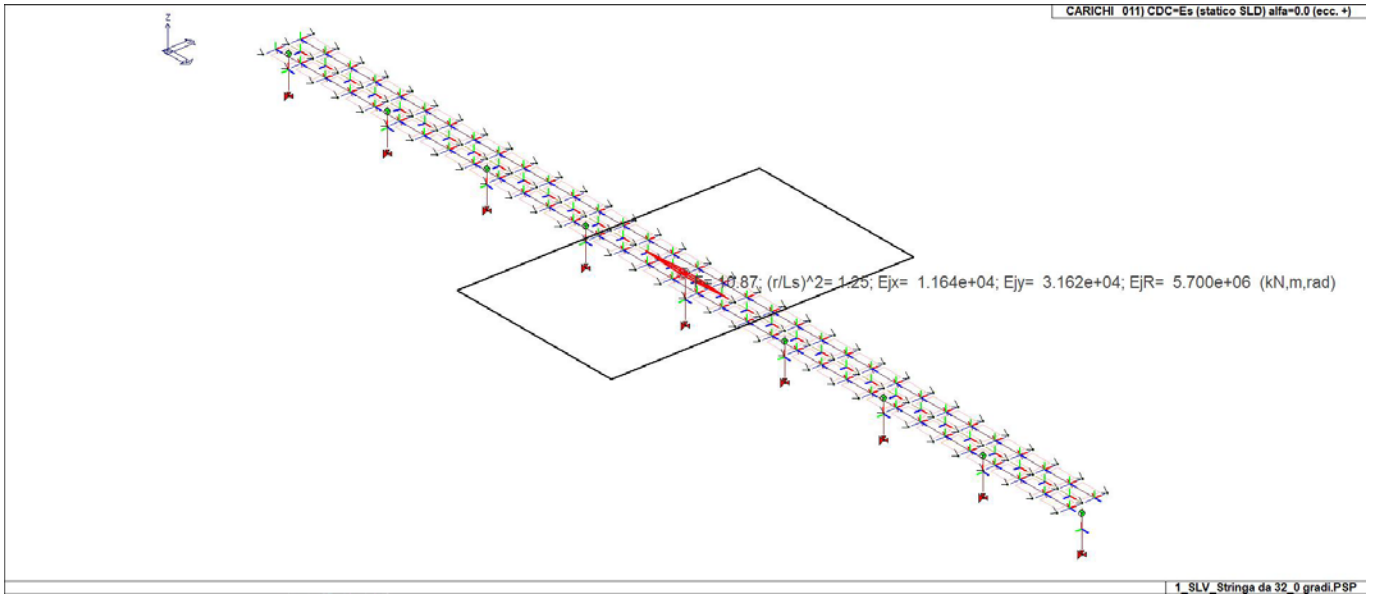
22_CDC_008_CDC=Es (statico SLU) alfa=0.0 (ecc. -)



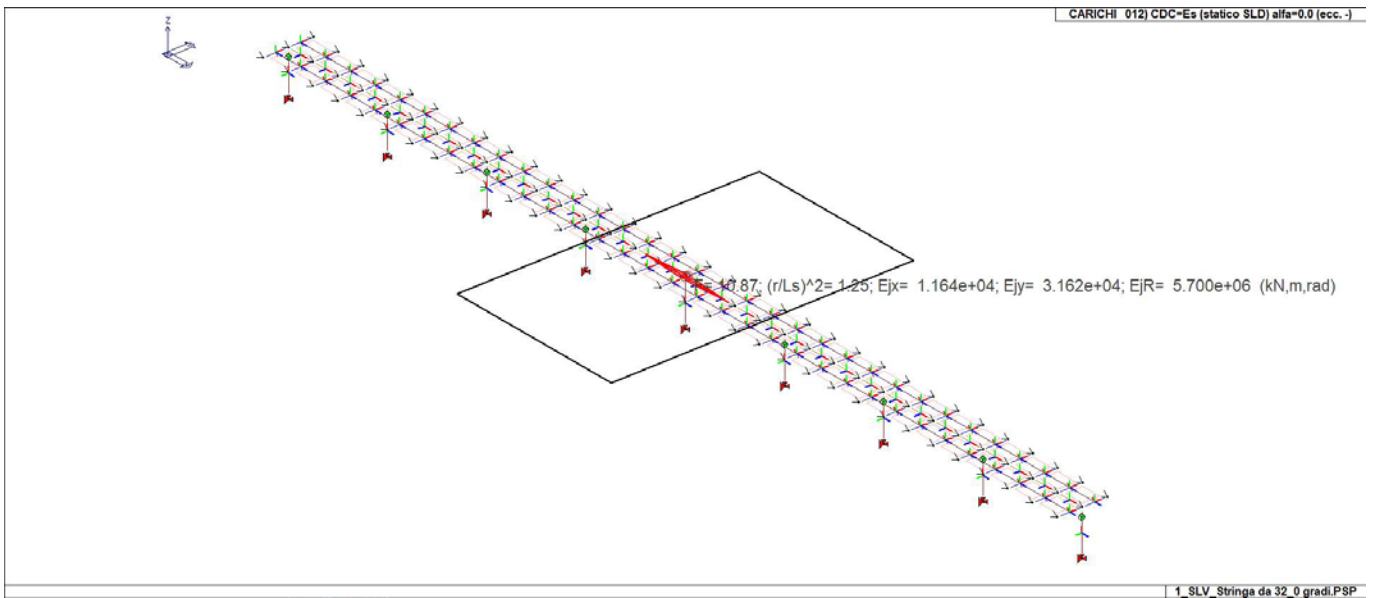
22_CDC_009_CDC=Es (statico SLU) alfa=90.00 (ecc. +)



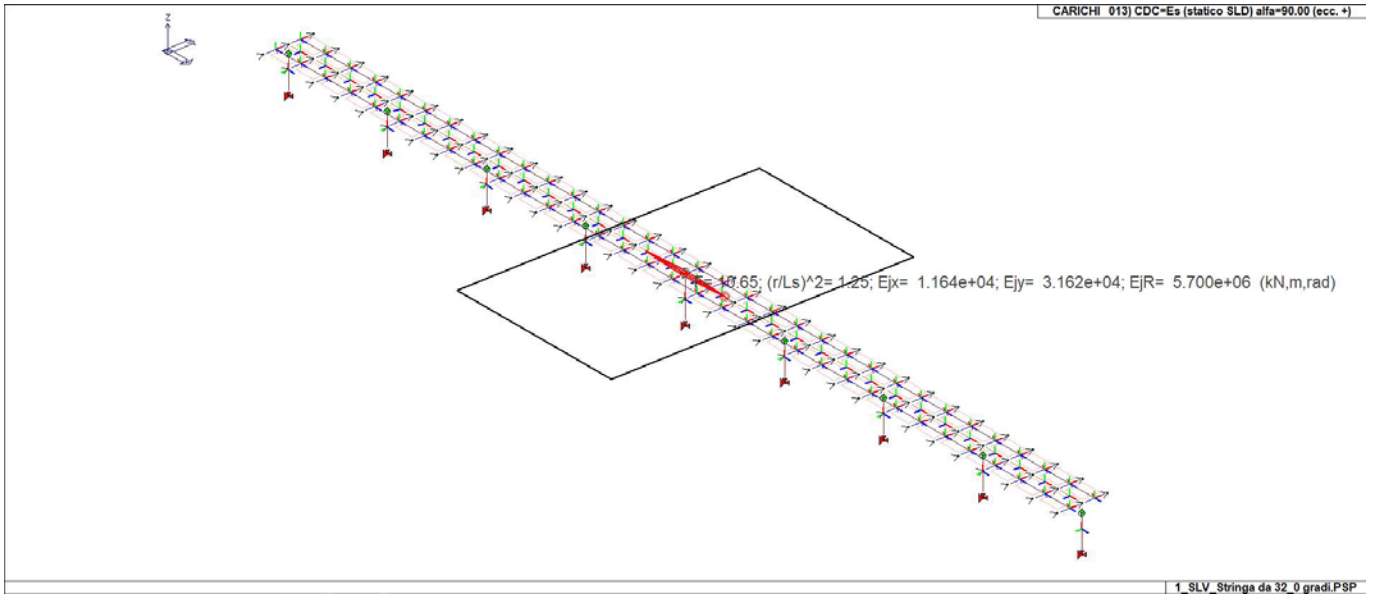
22_CDC_010_CDC=Es (statico SLU) alfa=90.00 (ecc. -)



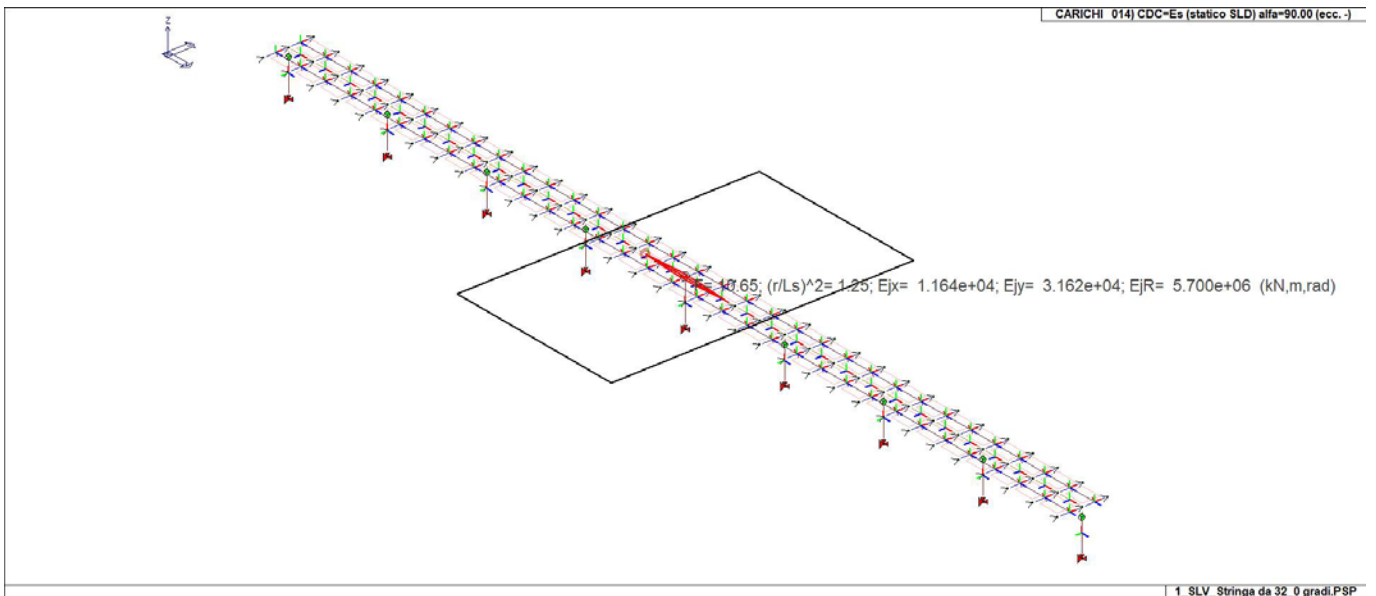
22_CDC_011_CDC=Es (statico SLD) alfa=0.0 (ecc. +)



22_CDC_012_CDC=Es (statico SLD) alfa=0.0 (ecc. -)



22_CDC_013_CDC=Es (statico SLD) alfa=90.00 (ecc. +)



22_CDC_014_CDC=Es (statico SLD) alfa=90.00 (ecc. -)

DEFINIZIONE DELLE COMBINAZIONI

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 2.5.1

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 $\leq 30kN$)	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 2.6.1

		Coefficiente γf	EQU	A1	A2
Carichi permanenti	Favorevoli	$\gamma G1$	0,9	1,0	1,0
	Sfavorevoli		1,1	1,3	1,0
Carichi permanenti non strutturali (Non compiutamente definiti)	Favorevoli	$\gamma G2$	0,8	0,8	0,8
	Sfavorevoli		1,5	1,5	1,3
Carichi variabili	Favorevoli	γQi	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 (SLV sism.) 1	SI
2	SLU	Comb. SLU A1 (SLV sism.) 2	SI
3	SLU	Comb. SLU A1 (SLV sism.) 3	SI
4	SLU	Comb. SLU A1 (SLV sism.) 4	SI
5	SLU	Comb. SLU A1 (SLV sism.) 5	SI
6	SLU	Comb. SLU A1 (SLV sism.) 6	SI
7	SLU	Comb. SLU A1 (SLV sism.) 7	SI
8	SLU	Comb. SLU A1 (SLV sism.) 8	SI
9	SLU	Comb. SLU A1 (SLV sism.) 9	SI
10	SLU	Comb. SLU A1 (SLV sism.) 10	SI
11	SLU	Comb. SLU A1 (SLV sism.) 11	SI
12	SLU	Comb. SLU A1 (SLV sism.) 12	SI
13	SLU	Comb. SLU A1 (SLV sism.) 13	SI
14	SLU	Comb. SLU A1 (SLV sism.) 14	SI
15	SLU	Comb. SLU A1 (SLV sism.) 15	SI
16	SLU	Comb. SLU A1 (SLV sism.) 16	SI
17	SLU	Comb. SLU A1 (SLV sism.) 17	SI
18	SLU	Comb. SLU A1 (SLV sism.) 18	SI
19	SLU	Comb. SLU A1 (SLV sism.) 19	SI
20	SLU	Comb. SLU A1 (SLV sism.) 20	SI
21	SLU	Comb. SLU A1 (SLV sism.) 21	SI
22	SLU	Comb. SLU A1 (SLV sism.) 22	SI
23	SLU	Comb. SLU A1 (SLV sism.) 23	SI
24	SLU	Comb. SLU A1 (SLV sism.) 24	SI
25	SLU	Comb. SLU A1 (SLV sism.) 25	SI
26	SLU	Comb. SLU A1 (SLV sism.) 26	SI
27	SLU	Comb. SLU A1 (SLV sism.) 27	SI
28	SLU	Comb. SLU A1 (SLV sism.) 28	SI
29	SLU	Comb. SLU A1 (SLV sism.) 29	SI
30	SLU	Comb. SLU A1 (SLV sism.) 30	SI
31	SLU	Comb. SLU A1 (SLV sism.) 31	SI
32	SLU	Comb. SLU A1 (SLV sism.) 32	SI
33	SLE(sis)	Comb. SLE (SLD Danno sism.) 33	SI
34	SLE(sis)	Comb. SLE (SLD Danno sism.) 34	SI
35	SLE(sis)	Comb. SLE (SLD Danno sism.) 35	SI
36	SLE(sis)	Comb. SLE (SLD Danno sism.) 36	SI
37	SLE(sis)	Comb. SLE (SLD Danno sism.) 37	SI
38	SLE(sis)	Comb. SLE (SLD Danno sism.) 38	SI
39	SLE(sis)	Comb. SLE (SLD Danno sism.) 39	SI
40	SLE(sis)	Comb. SLE (SLD Danno sism.) 40	SI
41	SLE(sis)	Comb. SLE (SLD Danno sism.) 41	SI
42	SLE(sis)	Comb. SLE (SLD Danno sism.) 42	SI
43	SLE(sis)	Comb. SLE (SLD Danno sism.) 43	SI
44	SLE(sis)	Comb. SLE (SLD Danno sism.) 44	SI
45	SLE(sis)	Comb. SLE (SLD Danno sism.) 45	SI
46	SLE(sis)	Comb. SLE (SLD Danno sism.) 46	SI
47	SLE(sis)	Comb. SLE (SLD Danno sism.) 47	SI
48	SLE(sis)	Comb. SLE (SLD Danno sism.) 48	SI
49	SLE(sis)	Comb. SLE (SLD Danno sism.) 49	SI
50	SLE(sis)	Comb. SLE (SLD Danno sism.) 50	SI
51	SLE(sis)	Comb. SLE (SLD Danno sism.) 51	SI
52	SLE(sis)	Comb. SLE (SLD Danno sism.) 52	SI
53	SLE(sis)	Comb. SLE (SLD Danno sism.) 53	SI
54	SLE(sis)	Comb. SLE (SLD Danno sism.) 54	SI
55	SLE(sis)	Comb. SLE (SLD Danno sism.) 55	SI
56	SLE(sis)	Comb. SLE (SLD Danno sism.) 56	SI
57	SLE(sis)	Comb. SLE (SLD Danno sism.) 57	SI
58	SLE(sis)	Comb. SLE (SLD Danno sism.) 58	SI
59	SLE(sis)	Comb. SLE (SLD Danno sism.) 59	SI
60	SLE(sis)	Comb. SLE (SLD Danno sism.) 60	SI
61	SLE(sis)	Comb. SLE (SLD Danno sism.) 61	SI
62	SLE(sis)	Comb. SLE (SLD Danno sism.) 62	SI
63	SLE(sis)	Comb. SLE (SLD Danno sism.) 63	SI
64	SLE(sis)	Comb. SLE (SLD Danno sism.) 64	SI

AZIONE SISMICA

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):

a_g : accelerazione orizzontale massima del terreno;

F_o : 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;

Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
II	50.0	1.0	50.0	B	T2

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)

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

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

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

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

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

Lo spettro di risposta elastico in accelerazione della componente orizzontale del moto sismico, S_e , è definito dalle seguenti espressioni:

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

Dove per sottosuolo di categoria **A** i coefficienti S_s e C_c valgono 1; mentre per le categorie di sottosuolo B, C, D, E i coefficienti S_s e C_c vengono calcolati mediante le espressioni riportate nella seguente Tabella

Categoria sottosuolo	S_s	C_c
A	1,00	1,00
B	$1,00 \leq 1,40 - 0,40 \cdot F_o \cdot \frac{a_g}{g} \leq 1,20$	$1,10 \cdot (T_c^*)^{-0,20}$
C	$1,00 \leq 1,70 - 0,60 \cdot F_o \cdot \frac{a_g}{g} \leq 1,50$	$1,05 \cdot (T_c^*)^{-0,33}$
D	$0,90 \leq 2,40 - 1,50 \cdot F_o \cdot \frac{a_g}{g} \leq 1,80$	$1,25 \cdot (T_c^*)^{-0,50}$
E	$1,00 \leq 2,00 - 1,10 \cdot F_o \cdot \frac{a_g}{g} \leq 1,60$	$1,15 \cdot (T_c^*)^{-0,40}$

Per tenere conto delle condizioni topografiche e in assenza di specifiche analisi di risposta sismica locale, si utilizzano i valori del coefficiente topografico S_T riportati nella seguente Tabella

Categoria topografica	Ubicazione dell'opera o dell'intervento	S_T
T1	-	1,0
T2	In corrispondenza della sommità del pendio	1,2
T3	In corrispondenza della cresta di un rilievo con pendenza media minore o uguale a 30°	1,2
T4	In corrispondenza della cresta di un rilievo con pendenza media maggiore di 30°	1,4

Lo spettro di risposta elastico in accelerazione della componente verticale del moto sismico, S_{ve} , è definito dalle espressioni:

$$0 \leq T < T_B \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left[\frac{T}{T_B} + \frac{1}{\eta \cdot F_o} \left(1 - \frac{T}{T_B} \right) \right]$$

$$T_B \leq T < T_C \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v$$

$$T_C \leq T < T_D \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left(\frac{T_C}{T} \right)$$

$$T_D \leq T \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left(\frac{T_C \cdot T_D}{T^2} \right)$$

I valori di S_s , T_B , T_C e T_D , sono riportati nella seguente Tabella

Categoria di sottosuolo	S_s	T_B	T_C	T_D
A, B, C, D, E	1,0	0,05 s	0,15 s	1,0 s

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	15.386	41.222	
31441	15.351	41.220	2.926
31442	15.418	41.219	2.688
31220	15.419	41.269	5.890
31219	15.353	41.270	5.988

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	30.1	0.050	2.416	0.290
SLD	63.0	50.3	0.063	2.534	0.320
SLV	10.0	474.6	0.187	2.456	0.416
SLC	5.0	974.8	0.259	2.436	0.423

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.050	1.440	2.416	0.726	0.136	0.409	1.798
SLD	0.063	1.440	2.534	0.856	0.147	0.442	1.850
SLV	0.187	1.440	2.456	1.435	0.182	0.545	2.350
SLC	0.259	1.377	2.436	1.675	0.184	0.553	2.637

RISULTATI ANALISI SISMICHE

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
Amplificazione ND		Coefficiente di amplificazione q/q_{ND} delle azioni sismiche (solo per elementi progettati in campo non dissipativo)
Fattore di sito S		Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD		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 T1	proprio	Periodo proprio di vibrazione della struttura
Coefficiente Lambda		Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata Sd(T1)	spettro	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata Se(T1)	spettro	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata S (Tb-Tc)	spettro	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

Nel caso di elementi progettati in campo non dissipativo vengono adottate le sollecitazioni calcolate con un fattore q_{ND} ricavato come da 7.3.2 in funzione del fattore di comportamento q utilizzato per la struttura: $1 < q_{ND} = 2/3 * q < 1.5$

Il coefficiente di amplificazione delle azioni sismiche rispetto alle azioni calcolate con il fattore di comportamento globale viene indicato nelle relative tabelle.

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/Ls (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/Ls (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 ϵ_T (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità $1000 \cdot \epsilon_T/h$ 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 ϵ_T , ϵ_P e ϵ_D degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità $1000 \cdot \epsilon_T/h$ 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 dE, area ridotta e dimensione A2, 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 A_r (per dispositivi circolari)
V	Azione verticale agente
A_r	Area ridotta efficace
Dim A2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
$\Gamma_m c(a,s,t)$	Deformazioni di taglio dell' elastomero
V_{cr}	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

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

CDC	Tipo	Sigla Id	Note
7	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.663 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.197 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.663

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
200.00	3154.05	3154.05	4758.92	2580.00	110.00	0.0	-11.00	2580.00	110.00	1.247	0.0	0.0
Risulta	3154.05		4758.92									

CDC	Tipo	Sigla Id	Note
8	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.663 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.197 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.663

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
200.00	3154.05	3154.05	4758.92	2580.00	110.00	0.0	11.00	2580.00	110.00	1.247	0.0	0.0
Risulta	3154.05		4758.92									

CDC	Tipo	Sigla Id	Note
9	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.663 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.142 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.576

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
200.00	2743.10	2743.10	4758.92	2580.00	110.00	208.00	0.0	2580.00	110.00	1.247	0.0	0.0
Risulta	2743.10		4758.92									

CDC	Tipo	Sigla Id	Note
10	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.663 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.142 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.576

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
200.00	2743.10	2743.10	4758.92	2580.00	110.00	-208.00	0.0	2580.00	110.00	1.247	0.0	0.0
Risulta	2743.10		4758.92									

CDC	Tipo	Sigla Id	Note
11	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.228 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.197 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.228

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
200.00	1087.06	1087.06	4758.92	2580.00	110.00	0.0	-11.00	2580.00	110.00	1.247	0.0	0.0
Risulta	1087.06		4758.92									

CDC	Tipo	Sigla Id	Note
12	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.228 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.197 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.228

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
200.00	1087.06	1087.06	4758.92	2580.00	110.00	0.0	11.00	2580.00	110.00	1.247	0.0	0.0
Risulta	1087.06		4758.92									

CDC	Tipo	Sigla Id	Note
13	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.228 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.142 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.224

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
200.00	1064.67	1064.67	4758.92	2580.00	110.00	208.00	0.0	2580.00	110.00	1.247	0.0	0.0
Risulta	1064.67		4758.92									

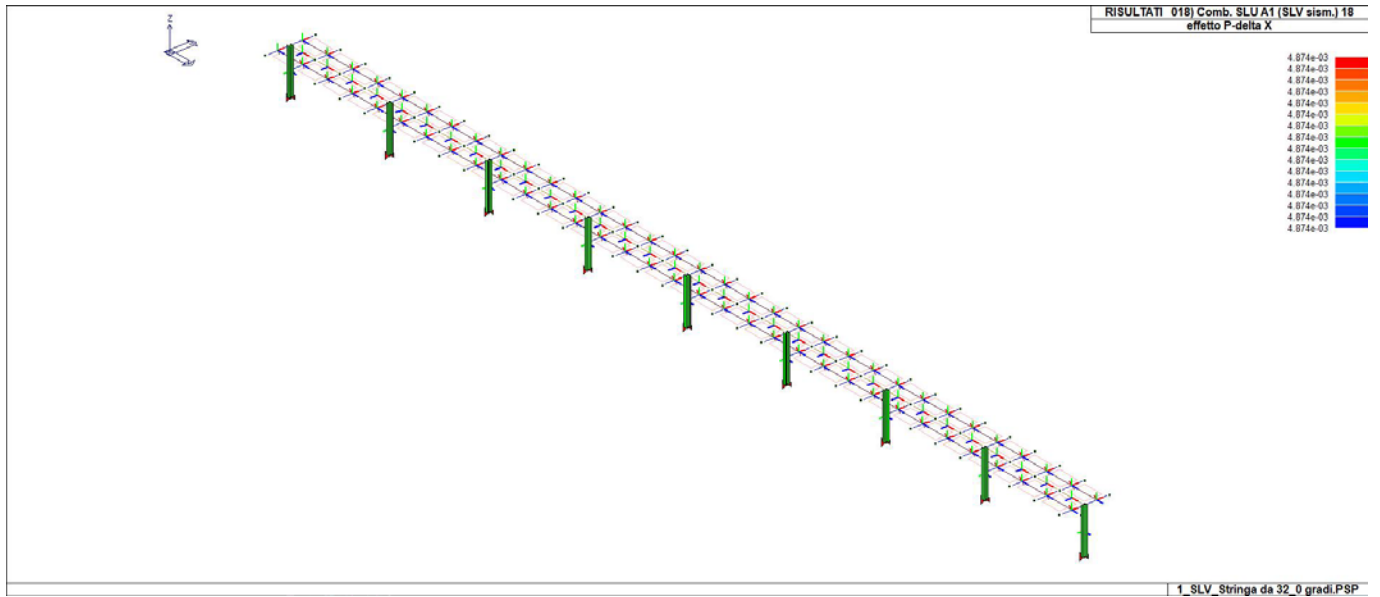
CDC	Tipo	Sigla Id	Note
14	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.228 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.142 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.224

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
200.00	1064.67	1064.67	4758.92	2580.00	110.00	-208.00	0.0	2580.00	110.00	1.247	0.0	0.0
Risulta	1064.67		4758.92									

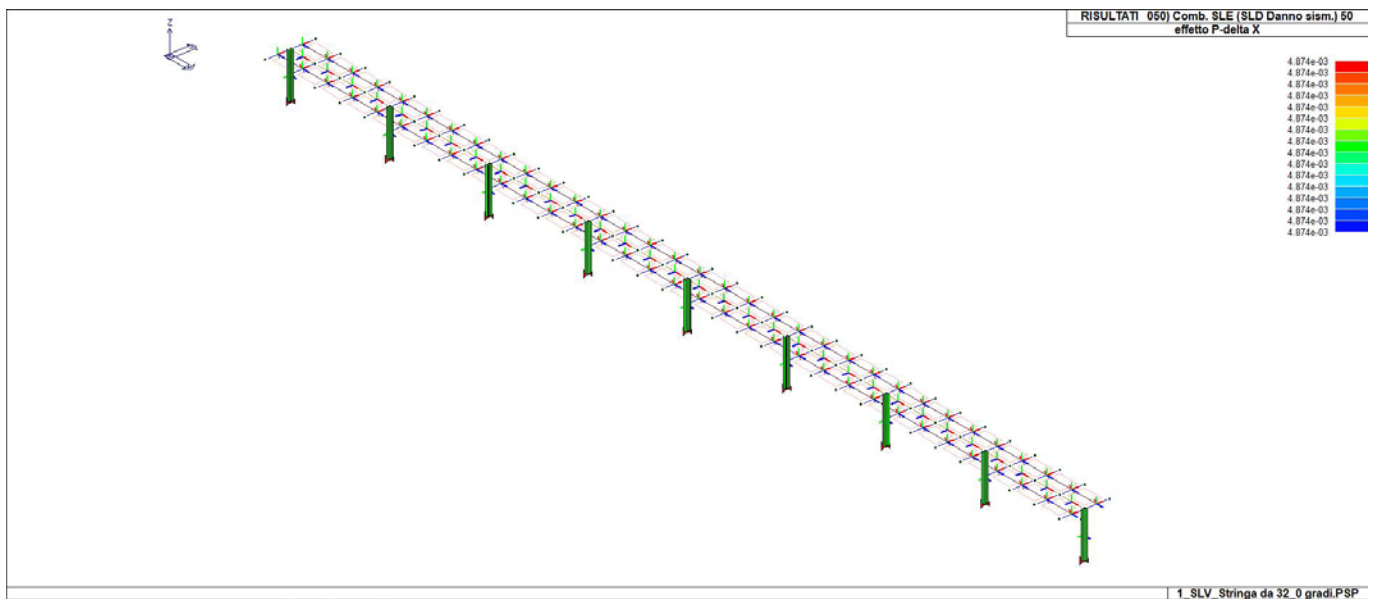
Cmb	Pilas. 1000 etaT/h	etaT	inter. h	Pilas. 1000 etaT/h	etaT	inter. h	Pilas. 1000 etaT/h	etaT	inter. h
		cm	cm		cm	cm		cm	cm
33	5	1.07	0.21	200.0	6	1.06	0.21	200.0	16
	22	1.06	0.21	200.0	48	1.06	0.21	200.0	52
	77	1.06	0.21	200.0	87	1.07	0.21	200.0	102
34	5	1.07	0.21	200.0	6	1.06	0.21	200.0	16
	22	1.06	0.21	200.0	48	1.06	0.21	200.0	52
	77	1.06	0.21	200.0	87	1.07	0.21	200.0	102
35	5	1.07	0.21	200.0	6	1.06	0.21	200.0	16
	22	1.06	0.21	200.0	48	1.06	0.21	200.0	52
	77	1.06	0.21	200.0	87	1.07	0.21	200.0	102
36	5	1.07	0.21	200.0	6	1.06	0.21	200.0	16
	22	1.06	0.21	200.0	48	1.06	0.21	200.0	52
	77	1.06	0.21	200.0	87	1.07	0.21	200.0	102

	77	0.59	0.12	200.0	87	0.53	0.11	200.0	102	0.56	0.11	200.0
63	5	0.53	0.11	200.0	6	0.36	0.07	200.0	16	0.43	0.09	200.0
	22	0.74	0.15	200.0	48	0.62	0.12	200.0	52	0.65	0.13	200.0
	77	0.59	0.12	200.0	87	0.53	0.11	200.0	102	0.56	0.11	200.0
64	5	0.53	0.11	200.0	6	0.35	0.07	200.0	16	0.43	0.09	200.0
	22	0.74	0.15	200.0	48	0.62	0.12	200.0	52	0.65	0.13	200.0
	77	0.59	0.12	200.0	87	0.53	0.11	200.0	102	0.56	0.11	200.0

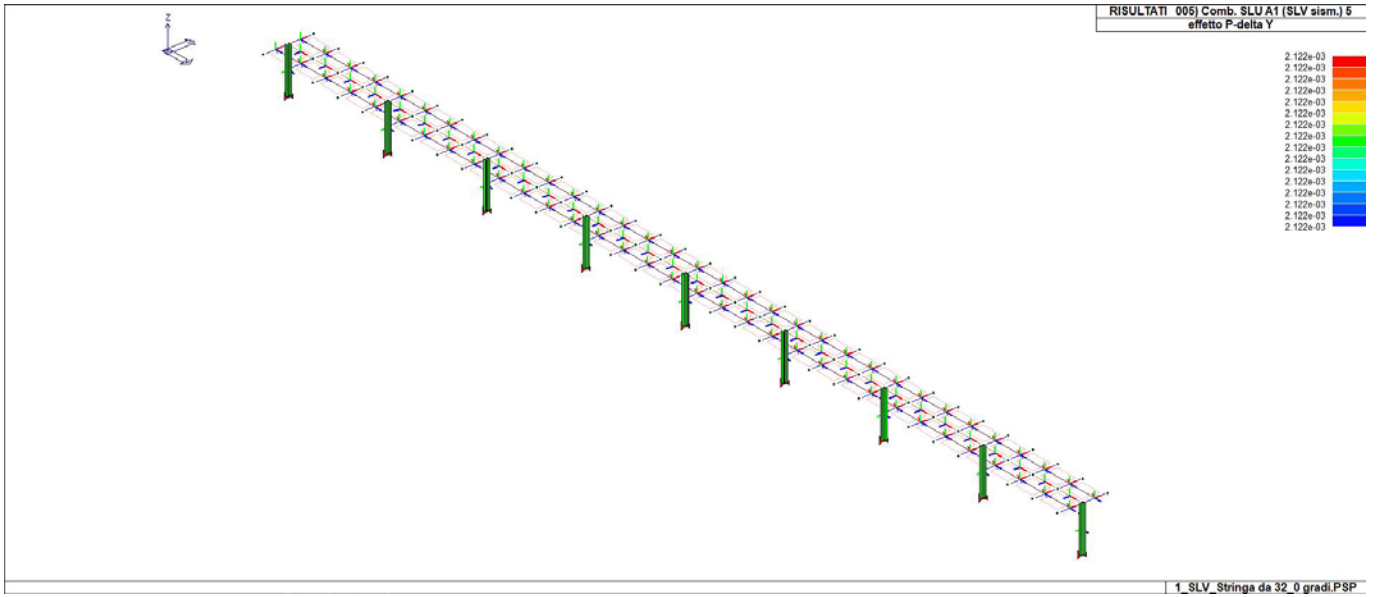
Cmb **1000 etaT/h**
 1.07



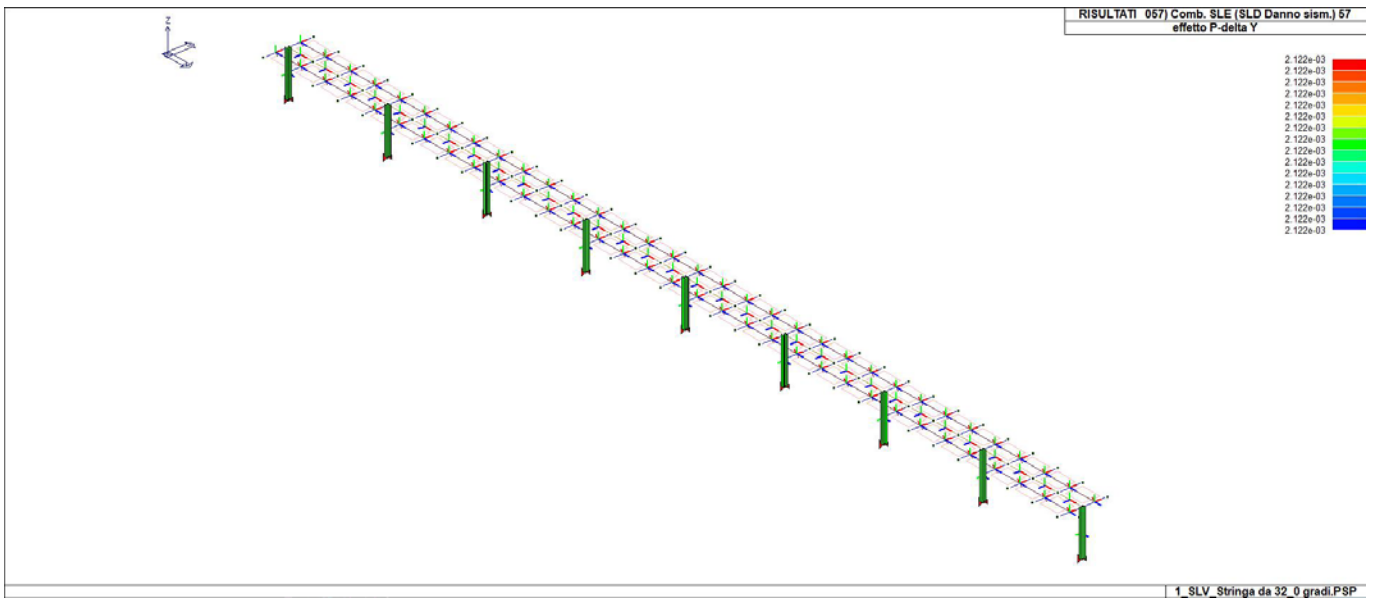
31_RIS_PDELTA_018_Comb. SLU A1 (SLV sism.) 18



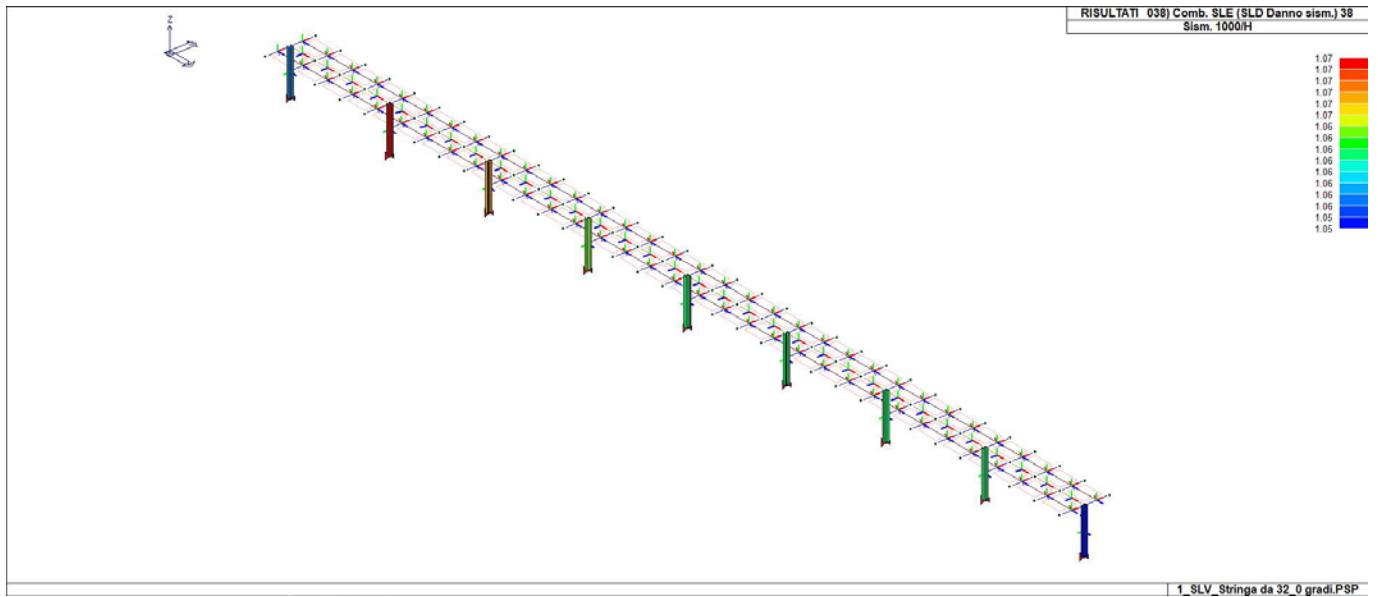
31_RIS_PDELTA_050_Comb. SLE (SLD Danno sism.) 50



31_RIS_PDELTAY_005_Comb. SLU A1 (SLV sism.) 5



31_RIS_PDELTAY_057_Comb. SLE (SLD Danno sism.) 57



31_RIS_SLE_038_Comb. SLE (SLD Danno sism.) 38

RISULTATI NODALI

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 cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	10	-0.69	0.07	-0.14	-1.04e-03	3.27e-04	9.61e-04
1	20	0.16	0.25	-0.32	-2.40e-03	5.87e-04	1.51e-04
1	25	-0.16	-0.32	0.12	1.47e-03	4.67e-04	-1.45e-04
1	42	-0.24	0.03	-0.11	-6.88e-04	4.58e-04	3.35e-04
1	52	0.05	0.10	-0.18	-1.21e-03	5.47e-04	6.45e-05
1	57	-0.05	-0.12	-0.01	2.89e-04	5.06e-04	-6.24e-05
2	1	-0.61	-0.07	-0.03	5.80e-04	3.27e-04	-9.14e-05
2	3	0.61	-0.07	-0.08	5.80e-04	7.27e-04	-8.26e-05
2	25	-0.18	-0.32	-0.05	1.93e-03	4.67e-04	-2.86e-04
2	33	-0.21	-0.03	-0.05	2.25e-04	4.58e-04	-3.53e-05
2	35	0.21	-0.03	-0.07	2.25e-04	5.96e-04	-3.22e-05
2	57	-0.06	-0.12	-0.06	7.51e-04	5.06e-04	-1.11e-04
3	1	-0.68	-0.08	-0.15	1.04e-03	-1.20e-04	-8.84e-04
3	19	0.20	-0.27	-0.36	2.40e-03	1.06e-05	2.30e-04
3	26	-0.21	0.34	0.09	-1.47e-03	-4.95e-05	-2.89e-04
3	33	-0.23	-0.03	-0.14	6.88e-04	-5.39e-05	-3.05e-04
3	51	0.07	-0.11	-0.22	1.21e-03	-9.08e-06	7.80e-05
3	58	-0.07	0.13	-0.05	-2.89e-04	-2.98e-05	-1.01e-04
4	10	-0.68	0.08	-0.15	-1.04e-03	-1.20e-04	8.84e-04
4	20	0.19	0.27	-0.36	-2.40e-03	1.06e-05	-1.07e-04
4	26	-0.19	0.34	-0.33	-2.40e-03	-4.95e-05	1.12e-04

4	42	-0.23	0.03	-0.14	-6.88e-04	-5.39e-05	3.05e-04
4	52	0.07	0.11	-0.22	-1.21e-03	-9.08e-06	-3.55e-05
4	58	-0.07	0.13	-0.21	-1.21e-03	-2.98e-05	3.74e-05
5	1	-0.61	-0.08	-0.05	5.80e-04	-1.20e-04	-1.44e-05
5	3	0.61	-0.08	-0.14	5.80e-04	8.07e-05	-4.83e-06
5	26	-0.18	0.34	-0.08	-1.93e-03	-4.95e-05	-2.86e-05
5	33	-0.21	-0.03	-0.08	2.25e-04	-5.39e-05	-5.37e-06
5	35	0.21	-0.03	-0.11	2.25e-04	1.51e-05	-2.08e-06
5	58	-0.06	0.13	-0.09	-7.51e-04	-2.98e-05	-1.11e-05
6	6	-0.69	0.09	0.01	-1.18e-04	-3.86e-04	-9.79e-04
6	19	0.23	-0.26	-0.32	2.40e-03	-5.82e-04	4.82e-04
6	26	-0.24	0.31	0.13	-1.47e-03	-4.91e-04	-6.11e-04
6	38	-0.24	0.04	-0.05	2.37e-04	-4.84e-04	-3.42e-04
6	51	0.08	-0.10	-0.18	1.21e-03	-5.52e-04	1.76e-04
6	58	-0.08	0.12	-5.55e-03	-2.89e-04	-5.21e-04	-2.26e-04
7	13	-0.69	-0.09	0.01	1.18e-04	-3.86e-04	9.79e-04
7	20	0.22	0.26	-0.32	-2.40e-03	-5.82e-04	-3.58e-04
7	26	-0.16	0.31	-0.29	-2.40e-03	-4.91e-04	-2.10e-04
7	45	-0.24	-0.04	-0.05	-2.37e-04	-4.84e-04	3.42e-04
7	52	0.08	0.10	-0.18	-1.21e-03	-5.52e-04	-1.33e-04
7	58	-0.05	0.12	-0.17	-1.21e-03	-5.21e-04	-8.75e-05
8	1	-0.61	-0.08	-0.01	5.80e-04	-3.86e-04	6.08e-05
8	3	0.61	-0.08	-0.10	5.80e-04	-6.87e-04	7.08e-05
8	26	-0.18	0.31	-0.04	-1.93e-03	-4.91e-04	-3.51e-04
8	33	-0.21	-0.03	-0.04	2.25e-04	-4.84e-04	2.38e-05
8	35	0.21	-0.03	-0.07	2.25e-04	-5.88e-04	2.73e-05
8	58	-0.06	0.12	-0.05	-7.51e-04	-5.21e-04	-1.36e-04
9	1	-0.68	-0.07	-0.10	1.04e-03	5.26e-04	-8.90e-04
9	17	-0.21	-0.24	-0.25	2.40e-03	1.40e-04	-3.16e-04
9	26	-0.21	0.28	0.17	-1.47e-03	1.40e-04	-3.10e-04
9	33	-0.23	-0.03	-0.06	6.88e-04	1.64e-04	-3.08e-04
9	49	-0.07	-0.09	-0.12	1.21e-03	3.11e-05	-1.11e-04
9	58	-0.07	0.11	0.04	-2.89e-04	3.11e-05	-1.09e-04
10	10	-0.68	0.07	-0.10	-1.04e-03	5.26e-04	8.90e-04
10	18	-0.20	0.24	-0.25	-2.40e-03	1.40e-04	1.92e-04
10	26	-0.19	0.28	-0.25	-2.40e-03	1.40e-04	9.12e-05
10	42	-0.23	0.03	-0.06	-6.88e-04	1.64e-04	3.08e-04
10	50	-0.07	0.09	-0.12	-1.21e-03	3.11e-05	6.86e-05
10	58	-0.06	0.11	-0.12	-1.21e-03	3.11e-05	2.94e-05
11	1	-0.61	-0.07	-1.71e-03	5.80e-04	5.26e-04	-2.10e-05
11	26	-0.18	0.28	-1.53e-03	-1.93e-03	1.40e-04	-4.94e-05
11	33	-0.21	-0.03	-1.55e-03	2.25e-04	1.64e-04	-7.92e-06
11	58	-0.06	0.11	-1.49e-03	-7.51e-04	3.11e-05	-1.91e-05
12	1	-0.69	-0.08	-0.24	1.04e-03	1.24e-03	-9.68e-04
12	17	-0.24	-0.27	-0.33	2.40e-03	7.18e-04	-5.74e-04
12	26	-0.17	0.30	0.10	-1.47e-03	7.18e-04	3.22e-06
12	33	-0.24	-0.03	-0.14	6.88e-04	7.51e-04	-3.38e-04
12	49	-0.08	-0.11	-0.18	1.21e-03	5.71e-04	-2.12e-04
12	58	-0.06	0.12	-0.01	-2.89e-04	5.71e-04	1.27e-05
13	10	-0.69	0.08	-0.24	-1.04e-03	1.24e-03	9.68e-04
13	18	-0.23	0.27	-0.33	-2.40e-03	7.18e-04	4.51e-04
13	26	-0.22	0.30	-0.33	-2.40e-03	7.18e-04	4.05e-04
13	42	-0.24	0.03	-0.14	-6.88e-04	7.51e-04	3.38e-04
13	50	-0.08	0.11	-0.18	-1.21e-03	5.71e-04	1.69e-04
13	58	-0.08	0.12	-0.18	-1.21e-03	5.71e-04	1.51e-04
14	1	-0.61	-0.08	-0.14	5.80e-04	1.24e-03	-9.86e-05
14	26	-0.18	0.30	-0.08	-1.93e-03	7.18e-04	2.64e-04
14	33	-0.21	-0.03	-0.08	2.25e-04	7.51e-04	-3.81e-05
14	58	-0.06	0.12	-0.06	-7.51e-04	5.71e-04	1.03e-04
15	1	-0.68	-0.09	-0.36	1.04e-03	3.83e-04	-8.84e-04
15	17	-0.21	-0.30	-0.39	2.40e-03	1.19e-04	-2.93e-04
15	26	-0.21	0.32	0.04	-1.47e-03	1.19e-04	-2.92e-04
15	33	-0.23	-0.03	-0.21	6.88e-04	1.36e-04	-3.05e-04
15	49	-0.07	-0.12	-0.22	1.21e-03	4.54e-05	-1.02e-04
15	58	-0.07	0.12	-0.06	-2.89e-04	4.54e-05	-1.02e-04
16	10	-0.68	0.09	-0.36	-1.04e-03	3.83e-04	8.84e-04
16	18	-0.20	0.30	-0.39	-2.40e-03	1.19e-04	1.70e-04
16	26	-0.19	0.32	-0.39	-2.40e-03	1.19e-04	1.09e-04
16	42	-0.23	0.03	-0.21	-6.88e-04	1.36e-04	3.05e-04
16	50	-0.07	0.12	-0.22	-1.21e-03	4.54e-05	5.98e-05
16	58	-0.07	0.12	-0.22	-1.21e-03	4.54e-05	3.63e-05
17	1	-0.61	-0.09	-0.26	5.80e-04	3.83e-04	-1.41e-05
17	26	-0.18	0.32	-0.14	-1.93e-03	1.19e-04	-3.14e-05
17	33	-0.21	-0.03	-0.14	2.25e-04	1.36e-04	-5.27e-06
17	58	-0.06	0.12	-0.10	-7.51e-04	4.54e-05	-1.21e-05
18	6	-0.69	0.09	-0.19	-1.18e-04	-1.05e-03	-9.74e-04
18	17	-0.18	-0.28	-0.35	2.40e-03	-6.59e-04	-1.95e-05

18	26	-0.24	0.29	0.08	-1.47e-03	-6.59e-04	-5.95e-04
18	38	-0.24	0.03	-0.12	2.37e-04	-6.84e-04	-3.40e-04
18	49	-0.06	-0.11	-0.19	1.21e-03	-5.49e-04	3.82e-06
18	58	-0.08	0.11	-0.02	-2.89e-04	-5.49e-04	-2.19e-04
19	13	-0.69	-0.09	-0.19	1.18e-04	-1.05e-03	9.74e-04
19	18	-0.17	0.28	-0.35	-2.40e-03	-6.59e-04	-1.04e-04
19	26	-0.16	0.29	-0.35	-2.40e-03	-6.59e-04	-1.93e-04
19	45	-0.24	-0.03	-0.12	-2.37e-04	-6.84e-04	3.40e-04
19	50	-0.06	0.11	-0.19	-1.21e-03	-5.49e-04	-4.63e-05
19	58	-0.05	0.11	-0.19	-1.21e-03	-5.49e-04	-8.11e-05
20	1	-0.61	-0.08	-0.21	5.80e-04	-1.05e-03	6.79e-05
20	26	-0.18	0.29	-0.10	-1.93e-03	-6.59e-04	-3.34e-04
20	33	-0.21	-0.03	-0.11	2.25e-04	-6.84e-04	2.66e-05
20	58	-0.06	0.11	-0.07	-7.51e-04	-5.49e-04	-1.30e-04
21	1	-0.68	-0.08	-0.10	1.04e-03	-2.06e-03	-8.90e-04
21	17	-0.21	-0.26	-0.25	2.40e-03	-6.18e-04	-3.14e-04
21	33	-0.23	-0.03	-0.06	6.88e-04	-7.10e-04	-3.07e-04
21	49	-0.07	-0.10	-0.12	1.21e-03	-2.13e-04	-1.10e-04
22	10	-0.68	0.08	-0.10	-1.04e-03	-2.06e-03	8.90e-04
22	17	-0.19	-0.26	0.17	1.47e-03	-6.18e-04	8.76e-05
22	18	-0.20	0.26	-0.25	-2.40e-03	-6.18e-04	1.91e-04
22	42	-0.23	0.03	-0.06	-6.88e-04	-7.10e-04	3.07e-04
22	49	-0.06	-0.10	0.04	2.89e-04	-2.13e-04	2.80e-05
22	50	-0.07	0.10	-0.12	-1.21e-03	-2.13e-04	6.79e-05
23	1	-0.61	-0.08	-1.44e-03	5.80e-04	-2.06e-03	-2.04e-05
23	17	-0.18	-0.26	-1.44e-03	1.93e-03	-6.18e-04	-5.30e-05
23	33	-0.21	-0.03	-1.44e-03	2.25e-04	-7.10e-04	-7.70e-06
23	49	-0.06	-0.10	-1.44e-03	7.51e-04	-2.13e-04	-2.05e-05
24	1	-0.69	-0.09	0.01	1.04e-03	-6.87e-05	-9.74e-04
24	17	-0.24	-0.29	-0.25	2.40e-03	3.23e-04	-5.95e-04
24	19	0.17	-0.29	-0.35	2.40e-03	6.59e-04	-7.02e-05
24	33	-0.24	-0.03	-0.06	6.88e-04	2.98e-04	-3.40e-04
24	49	-0.08	-0.11	-0.15	1.21e-03	4.33e-04	-2.19e-04
24	51	0.06	-0.11	-0.19	1.21e-03	5.49e-04	-3.87e-05
25	10	-0.69	0.09	0.01	-1.04e-03	-6.87e-05	9.74e-04
25	17	-0.16	-0.29	0.17	1.47e-03	3.23e-04	-1.93e-04
25	20	0.16	0.29	-0.35	-2.40e-03	6.59e-04	1.93e-04
25	42	-0.24	0.03	-0.06	-6.88e-04	2.98e-04	3.40e-04
25	49	-0.05	-0.11	0.01	2.89e-04	4.33e-04	-8.11e-05
25	52	0.05	0.11	-0.19	-1.21e-03	5.49e-04	8.11e-05
26	1	-0.61	-0.09	0.11	5.80e-04	-6.87e-05	-1.05e-04
26	3	0.61	-0.09	-0.21	5.80e-04	1.05e-03	-9.48e-05
26	17	-0.18	-0.29	-1.98e-04	1.93e-03	3.23e-04	-3.34e-04
26	33	-0.21	-0.03	7.13e-03	2.25e-04	2.98e-04	-4.04e-05
26	35	0.21	-0.03	-0.11	2.25e-04	6.84e-04	-3.70e-05
26	49	-0.06	-0.11	-0.03	7.51e-04	4.33e-04	-1.30e-04
27	6	-0.68	0.09	0.11	-1.18e-04	3.70e-04	-8.84e-04
27	17	-0.21	-0.32	-0.29	2.40e-03	1.06e-04	-2.92e-04
27	19	0.20	-0.32	-0.39	2.40e-03	-1.19e-04	2.32e-04
27	38	-0.23	0.03	-0.04	2.37e-04	1.23e-04	-3.05e-04
27	49	-0.07	-0.12	-0.19	1.21e-03	3.25e-05	-1.02e-04
27	51	0.07	-0.12	-0.22	1.21e-03	-4.54e-05	7.88e-05
28	13	-0.68	-0.09	0.11	1.18e-04	3.70e-04	8.84e-04
28	17	-0.19	-0.32	0.14	1.47e-03	1.06e-04	1.09e-04
28	20	0.19	0.32	-0.39	-2.40e-03	-1.19e-04	-1.09e-04
28	45	-0.23	-0.03	-0.04	-2.37e-04	1.23e-04	3.05e-04
28	49	-0.07	-0.12	-0.02	2.89e-04	3.25e-05	3.63e-05
28	52	0.07	0.12	-0.22	-1.21e-03	-4.54e-05	-3.63e-05
29	1	-0.61	-0.10	0.08	5.80e-04	3.70e-04	-1.39e-05
29	3	0.61	-0.10	-0.26	5.80e-04	-3.83e-04	-3.99e-06
29	17	-0.18	-0.32	-0.04	1.93e-03	1.06e-04	-3.14e-05
29	33	-0.21	-0.04	-0.03	2.25e-04	1.23e-04	-5.19e-06
29	35	0.21	-0.04	-0.14	2.25e-04	-1.36e-04	-1.76e-06
29	49	-0.06	-0.12	-0.07	7.51e-04	3.25e-05	-1.21e-05
30	6	-0.69	0.08	0.07	-1.18e-04	2.53e-04	-9.68e-04
30	17	-0.17	-0.30	-0.27	2.40e-03	-2.70e-04	3.22e-06
30	19	0.23	-0.30	-0.33	2.40e-03	-2.18e-04	5.28e-04
30	38	-0.24	0.03	-0.03	2.37e-04	-2.37e-04	-3.38e-04
30	49	-0.06	-0.12	-0.16	1.21e-03	-4.17e-04	1.27e-05
30	51	0.08	-0.12	-0.18	1.21e-03	-5.71e-04	1.93e-04
31	13	-0.69	-0.08	0.07	1.18e-04	2.53e-04	9.68e-04
31	17	-0.22	-0.30	0.15	1.47e-03	-2.70e-04	4.05e-04
31	20	0.22	0.30	-0.33	-2.40e-03	-7.18e-04	-4.05e-04
31	45	-0.24	-0.03	-0.03	-2.37e-04	-2.37e-04	3.38e-04
31	49	-0.08	-0.12	5.66e-03	2.89e-04	-4.17e-04	1.51e-04
31	52	0.08	0.12	-0.18	-1.21e-03	-5.71e-04	-1.51e-04
32	1	-0.61	-0.09	0.04	5.80e-04	2.53e-04	7.47e-05

32	3	0.61	-0.09	-0.14	5.80e-04	-1.24e-03	8.47e-05
32	17	-0.18	-0.30	-0.02	1.93e-03	-2.70e-04	2.64e-04
32	33	-0.21	-0.03	-0.02	2.25e-04	-2.37e-04	2.92e-05
32	35	0.21	-0.03	-0.08	2.25e-04	-7.51e-04	3.26e-05
32	49	-0.06	-0.12	-0.04	7.51e-04	-4.17e-04	1.03e-04
33	6	-0.68	0.07	0.02	-1.18e-04	5.78e-04	-8.90e-04
33	17	-0.21	-0.28	-0.25	2.40e-03	1.92e-04	-3.10e-04
33	19	0.20	-0.28	-0.25	2.40e-03	-1.40e-04	2.14e-04
33	38	-0.23	0.03	-0.01	2.37e-04	2.16e-04	-3.08e-04
33	49	-0.07	-0.11	-0.12	1.21e-03	8.32e-05	-1.09e-04
33	51	0.07	-0.11	-0.12	1.21e-03	-3.11e-05	7.18e-05
34	13	-0.68	-0.07	0.02	1.18e-04	5.78e-04	8.90e-04
34	17	-0.19	-0.28	0.17	1.47e-03	1.92e-04	9.12e-05
34	20	0.19	0.28	-0.25	-2.40e-03	-1.40e-04	-9.12e-05
34	45	-0.23	-0.03	-0.01	-2.37e-04	2.16e-04	3.08e-04
34	49	-0.06	-0.11	0.04	2.89e-04	8.32e-05	2.94e-05
34	52	0.06	0.11	-0.12	-1.21e-03	-3.11e-05	-2.94e-05
35	1	-0.61	-0.08	-1.21e-03	5.80e-04	5.78e-04	-1.94e-05
35	3	0.61	-0.08	-1.71e-03	5.80e-04	-5.26e-04	-9.34e-06
35	17	-0.18	-0.28	-1.39e-03	1.93e-03	1.92e-04	-4.94e-05
35	33	-0.21	-0.03	-1.38e-03	2.25e-04	2.16e-04	-7.30e-06
35	35	0.21	-0.03	-1.55e-03	2.25e-04	-1.64e-04	-3.84e-06
35	49	-0.06	-0.11	-1.43e-03	7.51e-04	8.32e-05	-1.91e-05
36	1	-0.69	-0.09	-0.20	1.04e-03	6.87e-04	-9.79e-04
36	17	-0.24	-0.31	-0.32	2.40e-03	5.82e-04	-6.11e-04
36	33	-0.24	-0.04	-0.13	6.88e-04	5.88e-04	-3.42e-04
36	49	-0.08	-0.12	-0.18	1.21e-03	5.52e-04	-2.26e-04
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37	17	-0.16	-0.31	0.11	1.47e-03	5.82e-04	-2.10e-04
37	18	-0.23	0.31	-0.32	-2.40e-03	5.82e-04	4.88e-04
37	42	-0.24	0.04	-0.13	-6.88e-04	5.88e-04	3.42e-04
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37	50	-0.08	0.12	-0.18	-1.21e-03	5.52e-04	1.83e-04
38	1	-0.61	-0.09	-0.10	5.80e-04	6.87e-04	-1.10e-04
38	17	-0.18	-0.31	-0.07	1.93e-03	5.82e-04	-3.51e-04
38	33	-0.21	-0.04	-0.07	2.25e-04	5.88e-04	-4.24e-05
38	49	-0.06	-0.12	-0.06	7.51e-04	5.52e-04	-1.36e-04
39	6	-0.68	0.08	-0.12	-1.18e-04	-8.07e-05	-8.84e-04
39	17	-0.21	-0.34	-0.36	2.40e-03	-1.06e-05	-2.89e-04
39	38	-0.23	0.03	-0.13	2.37e-04	-1.51e-05	-3.05e-04
39	49	-0.07	-0.13	-0.22	1.21e-03	9.08e-06	-1.01e-04
40	13	-0.68	-0.08	-0.12	1.18e-04	-8.07e-05	8.84e-04
40	17	-0.19	-0.34	0.06	1.47e-03	-1.06e-05	1.12e-04
40	18	-0.20	0.34	-0.36	-2.40e-03	-1.06e-05	1.66e-04
40	45	-0.23	-0.03	-0.13	-2.37e-04	-1.51e-05	3.05e-04
40	49	-0.07	-0.13	-0.06	2.89e-04	9.08e-06	3.74e-05
40	50	-0.07	0.13	-0.22	-1.21e-03	9.08e-06	5.85e-05
41	1	-0.61	-0.10	-0.14	5.80e-04	-8.07e-05	-1.29e-05
41	17	-0.18	-0.34	-0.11	1.93e-03	-1.06e-05	-2.86e-05
41	33	-0.21	-0.04	-0.11	2.25e-04	-1.51e-05	-4.81e-06
41	49	-0.06	-0.13	-0.10	7.51e-04	9.08e-06	-1.11e-05
42	6	-0.69	0.07	-0.06	-1.18e-04	-7.27e-04	-9.61e-04
42	17	-0.17	-0.32	-0.32	2.40e-03	-5.87e-04	2.22e-05
42	18	-0.23	0.32	0.11	-1.47e-03	-5.87e-04	-5.47e-04
42	38	-0.24	0.03	-0.08	2.37e-04	-5.96e-04	-3.35e-04
42	49	-0.06	-0.12	-0.18	1.21e-03	-5.47e-04	2.00e-05
42	50	-0.08	0.12	-0.02	-2.89e-04	-5.47e-04	-2.01e-04
43	13	-0.69	-0.07	-0.06	1.18e-04	-7.27e-04	9.61e-04
43	18	-0.16	0.32	-0.32	-2.40e-03	-5.87e-04	-1.45e-04
43	45	-0.24	-0.03	-0.08	-2.37e-04	-5.96e-04	3.35e-04
43	50	-0.05	0.12	-0.18	-1.21e-03	-5.47e-04	-6.24e-05
44	1	-0.61	-0.10	-0.08	5.80e-04	-7.27e-04	8.09e-05
44	18	-0.18	0.32	-0.07	-1.93e-03	-5.87e-04	-2.86e-04
44	33	-0.21	-0.04	-0.07	2.25e-04	-5.96e-04	3.16e-05
44	50	-0.06	0.12	-0.06	-7.51e-04	-5.47e-04	-1.11e-04
45	1	-0.68	-0.09	-0.10	1.04e-03	-2.53e-04	-8.91e-04
45	17	-0.21	-0.29	-0.25	2.40e-03	-1.49e-04	-3.20e-04
45	18	-0.20	0.29	0.17	-1.47e-03	-1.49e-04	-2.04e-04
45	33	-0.23	-0.03	-0.06	6.88e-04	-1.56e-04	-3.08e-04
45	49	-0.07	-0.11	-0.12	1.21e-03	-1.20e-04	-1.13e-04
45	50	-0.07	0.11	0.04	-2.89e-04	-1.20e-04	-6.78e-05
46	10	-0.68	0.09	-0.10	-1.04e-03	-2.53e-04	8.91e-04
46	18	-0.20	0.29	-0.25	-2.40e-03	-1.49e-04	1.97e-04
46	42	-0.23	0.03	-0.06	-6.88e-04	-1.56e-04	3.08e-04
46	50	-0.07	0.11	-0.12	-1.21e-03	-1.20e-04	7.06e-05
47	1	-0.61	-0.09	-1.47e-03	5.80e-04	-2.53e-04	-2.13e-05
47	18	-0.18	0.29	-1.42e-03	-1.93e-03	-1.49e-04	5.69e-05

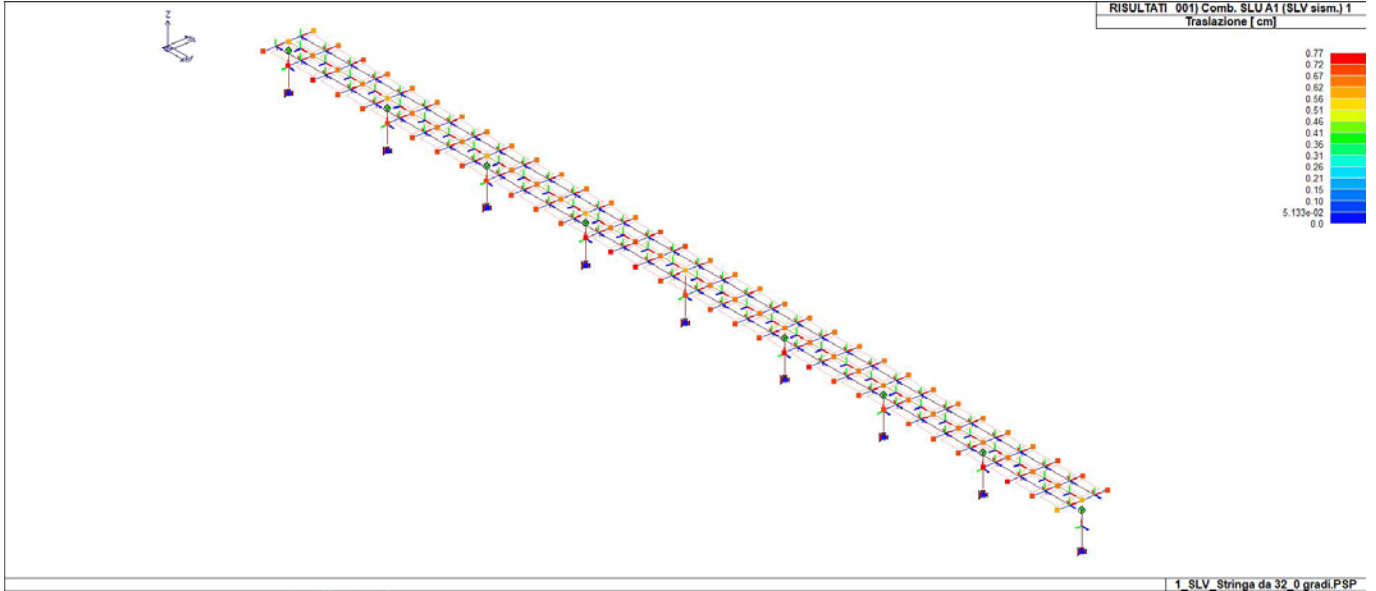
47	33	-0.21	-0.03	-1.42e-03	2.25e-04	-1.56e-04	-8.09e-06
47	50	-0.06	0.11	-1.41e-03	-7.51e-04	-1.20e-04	2.21e-05
48	1	-0.69	-0.10	-0.12	1.04e-03	3.16e-04	-9.92e-04
48	18	-0.16	0.34	0.15	-1.47e-03	3.45e-04	1.33e-04
48	19	0.16	-0.34	-0.29	2.40e-03	3.69e-04	-1.33e-04
48	33	-0.24	-0.04	-0.09	6.88e-04	3.43e-04	-3.47e-04
48	50	-0.05	0.13	0.01	-2.89e-04	3.53e-04	6.30e-05
48	51	0.05	-0.13	-0.15	1.21e-03	3.61e-04	-6.30e-05
49	10	-0.69	0.10	-0.12	-1.04e-03	3.16e-04	9.92e-04
49	18	-0.24	0.34	-0.28	-2.40e-03	3.45e-04	5.34e-04
49	20	0.15	0.33	-0.29	-2.40e-03	3.69e-04	2.55e-04
49	42	-0.24	0.04	-0.09	-6.88e-04	3.43e-04	3.47e-04
49	50	-0.08	0.13	-0.15	-1.21e-03	3.53e-04	2.01e-04
49	52	0.05	0.13	-0.15	-1.21e-03	3.61e-04	1.05e-04
50	1	0.0	0.0	0.0	0.0	0.0	0.0
50	33	0.0	0.0	0.0	0.0	0.0	0.0
51	1	-0.61	-0.10	-0.02	5.80e-04	3.16e-04	-1.22e-04
51	3	0.61	-0.10	-0.04	5.80e-04	3.98e-04	-1.15e-04
51	18	-0.18	0.33	-0.03	-1.93e-03	3.45e-04	3.94e-04
51	33	-0.21	-0.04	-0.03	2.25e-04	3.43e-04	-4.73e-05
51	35	0.21	-0.04	-0.04	2.25e-04	3.71e-04	-4.47e-05
51	50	-0.06	0.13	-0.03	-7.51e-04	3.53e-04	1.53e-04
52	1	-0.68	-0.11	-0.15	1.04e-03	-4.51e-05	-8.97e-04
52	18	-0.19	0.37	0.12	-1.47e-03	-6.35e-05	-1.85e-04
52	19	0.19	-0.37	-0.31	2.40e-03	-7.93e-05	1.85e-04
52	33	-0.23	-0.04	-0.11	6.88e-04	-6.24e-05	-3.10e-04
52	50	-0.07	0.14	-9.93e-03	-2.89e-04	-6.87e-05	-6.06e-05
52	51	0.07	-0.14	-0.18	1.21e-03	-7.41e-05	6.06e-05
53	10	-0.68	0.11	-0.15	-1.04e-03	-4.51e-05	8.97e-04
53	18	-0.20	0.37	-0.30	-2.40e-03	-6.35e-05	2.16e-04
53	20	0.19	0.37	-0.31	-2.40e-03	-7.93e-05	-6.24e-05
53	42	-0.23	0.04	-0.11	-6.88e-04	-6.24e-05	3.10e-04
53	50	-0.07	0.14	-0.18	-1.21e-03	-6.87e-05	7.78e-05
53	52	0.06	0.14	-0.18	-1.21e-03	-7.41e-05	-1.82e-05
54	1	-0.61	-0.11	-0.04	5.80e-04	-4.51e-05	-2.77e-05
54	3	0.61	-0.11	-0.07	5.80e-04	-9.77e-05	-1.84e-05
54	18	-0.18	0.37	-0.05	-1.93e-03	-6.35e-05	7.54e-05
54	33	-0.21	-0.04	-0.05	2.25e-04	-6.24e-05	-1.06e-05
54	35	0.21	-0.04	-0.06	2.25e-04	-8.05e-05	-7.33e-06
54	50	-0.06	0.14	-0.05	-7.51e-04	-6.87e-05	2.93e-05
55	6	-0.68	0.07	0.01	-1.18e-04	-3.38e-04	-9.43e-04
55	18	-0.23	0.36	0.16	-1.47e-03	-3.76e-04	-4.84e-04
55	19	0.23	-0.36	-0.27	2.40e-03	-4.08e-04	4.84e-04
55	38	-0.24	0.03	-0.03	2.37e-04	-3.74e-04	-3.28e-04
55	50	-0.08	0.14	0.03	-2.89e-04	-3.87e-04	-1.76e-04
55	51	0.08	-0.14	-0.14	1.21e-03	-3.98e-04	1.76e-04
56	13	-0.68	-0.07	0.01	1.18e-04	-3.38e-04	9.43e-04
56	18	-0.17	0.36	-0.27	-2.40e-03	-3.76e-04	-8.22e-05
56	20	0.22	0.36	-0.27	-2.40e-03	-4.08e-04	-3.59e-04
56	45	-0.24	-0.03	-0.03	-2.37e-04	-3.74e-04	3.28e-04
56	50	-0.06	0.14	-0.14	-1.21e-03	-3.87e-04	-3.79e-05
56	52	0.08	0.14	-0.14	-1.21e-03	-3.98e-04	-1.33e-04
57	1	-0.61	-0.11	-0.01	5.80e-04	-3.38e-04	5.96e-05
57	3	0.61	-0.11	-0.03	5.80e-04	-4.46e-04	7.29e-05
57	18	-0.18	0.36	-0.02	-1.93e-03	-3.76e-04	-2.23e-04
57	33	-0.21	-0.04	-0.02	2.25e-04	-3.74e-04	2.34e-05
57	35	0.21	-0.04	-0.02	2.25e-04	-4.11e-04	2.80e-05
57	50	-0.06	0.14	-0.02	-7.51e-04	-3.87e-04	-8.64e-05
58	1	-0.68	-0.10	-0.10	1.04e-03	4.35e-04	-9.36e-04
58	17	-0.22	-0.34	-0.25	2.40e-03	4.05e-04	-4.52e-04
58	19	0.18	-0.34	-0.25	2.40e-03	3.80e-04	7.56e-05
58	33	-0.24	-0.04	-0.06	6.88e-04	4.07e-04	-3.25e-04
58	49	-0.08	-0.13	-0.12	1.21e-03	3.97e-04	-1.64e-04
58	51	0.06	-0.13	-0.12	1.21e-03	3.88e-04	1.79e-05
59	10	-0.68	0.10	-0.10	-1.04e-03	4.35e-04	9.36e-04
59	17	-0.17	-0.34	0.17	1.47e-03	4.05e-04	-5.04e-05
59	20	0.17	0.34	-0.25	-2.40e-03	3.80e-04	5.04e-05
59	42	-0.24	0.04	-0.06	-6.88e-04	4.07e-04	3.25e-04
59	49	-0.06	-0.13	0.04	2.89e-04	3.97e-04	-2.56e-05
59	52	0.06	0.13	-0.12	-1.21e-03	3.88e-04	2.56e-05
60	1	-0.61	-0.10	-1.61e-03	5.80e-04	4.35e-04	-6.61e-05
60	3	0.61	-0.10	-1.64e-03	5.80e-04	3.50e-04	-4.68e-05
60	17	-0.18	-0.34	-1.62e-03	1.93e-03	4.05e-04	-1.91e-04
60	33	-0.21	-0.04	-1.62e-03	2.25e-04	4.07e-04	-2.52e-05
60	35	0.21	-0.04	-1.63e-03	2.25e-04	3.78e-04	-1.86e-05
60	49	-0.06	-0.13	-1.62e-03	7.51e-04	3.97e-04	-7.40e-05
61	1	-0.69	-0.12	-0.22	1.04e-03	1.04e-03	-1.02e-03

61	17	-0.25	-0.40	-0.37	2.40e-03	1.03e-03	-7.32e-04
61	33	-0.24	-0.05	-0.18	6.88e-04	1.04e-03	-3.59e-04
61	49	-0.09	-0.16	-0.24	1.21e-03	1.03e-03	-2.73e-04
62	10	-0.69	0.12	-0.22	-1.04e-03	1.04e-03	1.02e-03
62	17	-0.14	-0.40	0.06	1.47e-03	1.03e-03	-3.31e-04
62	18	-0.24	0.40	-0.37	-2.40e-03	1.03e-03	6.04e-04
62	42	-0.24	0.05	-0.18	-6.88e-04	1.04e-03	3.59e-04
62	49	-0.05	-0.16	-0.07	2.89e-04	1.03e-03	-1.34e-04
62	50	-0.09	0.15	-0.24	-1.21e-03	1.03e-03	2.29e-04
63	1	-0.61	-0.12	-0.12	5.80e-04	1.04e-03	-1.53e-04
63	17	-0.18	-0.40	-0.12	1.93e-03	1.03e-03	-4.72e-04
63	33	-0.21	-0.05	-0.12	2.25e-04	1.04e-03	-5.90e-05
63	49	-0.06	-0.15	-0.12	7.51e-04	1.03e-03	-1.83e-04
64	2	-0.68	0.12	-0.19	-1.18e-04	2.61e-04	-9.49e-04
64	17	-0.18	-0.42	-0.46	2.40e-03	2.65e-04	-5.72e-05
64	34	-0.24	0.05	-0.22	2.37e-04	2.65e-04	-3.30e-04
64	49	-0.06	-0.16	-0.33	1.21e-03	2.66e-04	-1.07e-05
65	9	-0.68	-0.12	-0.19	1.18e-04	2.61e-04	9.49e-04
65	17	-0.22	-0.42	-0.04	1.47e-03	2.65e-04	3.44e-04
65	18	-0.17	0.42	-0.46	-2.40e-03	2.65e-04	-7.31e-05
65	41	-0.24	-0.05	-0.22	-2.37e-04	2.65e-04	3.30e-04
65	49	-0.08	-0.16	-0.16	2.89e-04	2.66e-04	1.28e-04
65	50	-0.06	0.16	-0.33	-1.21e-03	2.66e-04	-3.43e-05
66	1	-0.61	-0.13	-0.21	5.80e-04	2.61e-04	4.58e-05
66	17	-0.18	-0.42	-0.21	1.93e-03	2.65e-04	2.04e-04
66	33	-0.21	-0.05	-0.21	2.25e-04	2.65e-04	1.85e-05
66	49	-0.06	-0.16	-0.21	7.51e-04	2.66e-04	7.92e-05
67	2	-0.71	0.10	-0.14	-1.18e-04	-9.17e-04	-1.23e-03
67	17	-0.08	-0.34	-0.42	2.40e-03	-9.05e-04	8.56e-04
67	34	-0.25	0.04	-0.18	2.37e-04	-9.05e-04	-4.38e-04
67	49	-0.02	-0.13	-0.29	1.21e-03	-9.01e-04	3.44e-04
68	9	-0.71	-0.10	-0.14	1.18e-04	-9.17e-04	1.23e-03
68	17	-0.32	-0.34	7.36e-03	1.47e-03	-9.05e-04	1.26e-03
68	18	-0.07	0.33	-0.42	-2.40e-03	-9.05e-04	-9.89e-04
68	41	-0.25	-0.04	-0.18	-2.37e-04	-9.05e-04	4.38e-04
68	49	-0.11	-0.13	-0.12	2.89e-04	-9.01e-04	4.82e-04
68	50	-0.02	0.13	-0.29	-1.21e-03	-9.01e-04	-3.90e-04
69	1	-0.61	-0.10	-0.17	5.80e-04	-9.17e-04	3.16e-04
69	17	-0.18	-0.34	-0.17	1.93e-03	-9.05e-04	1.12e-03
69	33	-0.21	-0.04	-0.17	2.25e-04	-9.05e-04	1.24e-04
69	49	-0.06	-0.13	-0.17	7.51e-04	-9.01e-04	4.34e-04
70	2	-0.70	0.04	0.04	-3.19e-04	-1.49e-03	-9.81e-04
70	17	-0.02	-0.15	-0.24	2.20e-03	-1.48e-03	1.39e-03
70	34	-0.24	0.02	2.55e-03	3.64e-05	-1.48e-03	-3.58e-04
70	49	-1.11e-03	-0.06	-0.10	1.01e-03	-1.47e-03	5.47e-04
71	9	-0.70	-0.04	0.04	3.19e-04	-1.49e-03	9.81e-04
71	17	-0.36	-0.15	0.19	1.67e-03	-1.48e-03	1.62e-03
71	18	-0.02	0.15	-0.24	-2.20e-03	-1.48e-03	-1.48e-03
71	41	-0.24	-0.02	2.55e-03	-3.64e-05	-1.48e-03	3.58e-04
71	49	-0.13	-0.06	0.06	4.89e-04	-1.47e-03	6.25e-04
71	50	1.17e-03	0.06	-0.10	-1.01e-03	-1.47e-03	-5.76e-04
72	1	-0.61	-0.05	-6.41e-04	5.80e-04	-1.49e-03	4.40e-04
72	17	-0.18	-0.15	-6.39e-04	1.93e-03	-1.48e-03	1.54e-03
72	33	-0.21	-0.02	-6.39e-04	2.25e-04	-1.48e-03	1.72e-04
72	49	-0.06	-0.06	-6.39e-04	7.51e-04	-1.47e-03	5.98e-04
73	1	0.0	0.0	0.0	0.0	0.0	0.0
73	33	0.0	0.0	0.0	0.0	0.0	0.0
74	1	0.0	0.0	0.0	0.0	0.0	0.0
74	33	0.0	0.0	0.0	0.0	0.0	0.0
75	1	0.0	0.0	0.0	0.0	0.0	0.0
75	33	0.0	0.0	0.0	0.0	0.0	0.0
76	1	0.0	0.0	0.0	0.0	0.0	0.0
76	33	0.0	0.0	0.0	0.0	0.0	0.0
77	1	0.0	0.0	0.0	0.0	0.0	0.0
77	33	0.0	0.0	0.0	0.0	0.0	0.0
78	1	0.0	0.0	0.0	0.0	0.0	0.0
78	33	0.0	0.0	0.0	0.0	0.0	0.0
79	1	0.0	0.0	0.0	0.0	0.0	0.0
79	33	0.0	0.0	0.0	0.0	0.0	0.0
80	1	0.0	0.0	0.0	0.0	0.0	0.0
80	33	0.0	0.0	0.0	0.0	0.0	0.0
81	5	-0.70	-0.04	-0.09	8.42e-04	1.45e-03	-9.81e-04
81	19	0.09	-0.09	-0.24	2.20e-03	1.48e-03	-7.64e-04
81	26	-0.02	0.15	0.19	-1.67e-03	1.46e-03	1.39e-03
81	37	-0.24	-0.02	-0.05	4.87e-04	1.46e-03	-3.58e-04
81	51	0.03	-0.03	-0.10	1.01e-03	1.47e-03	-3.03e-04
81	58	-1.11e-03	0.06	0.06	-4.89e-04	1.47e-03	5.47e-04

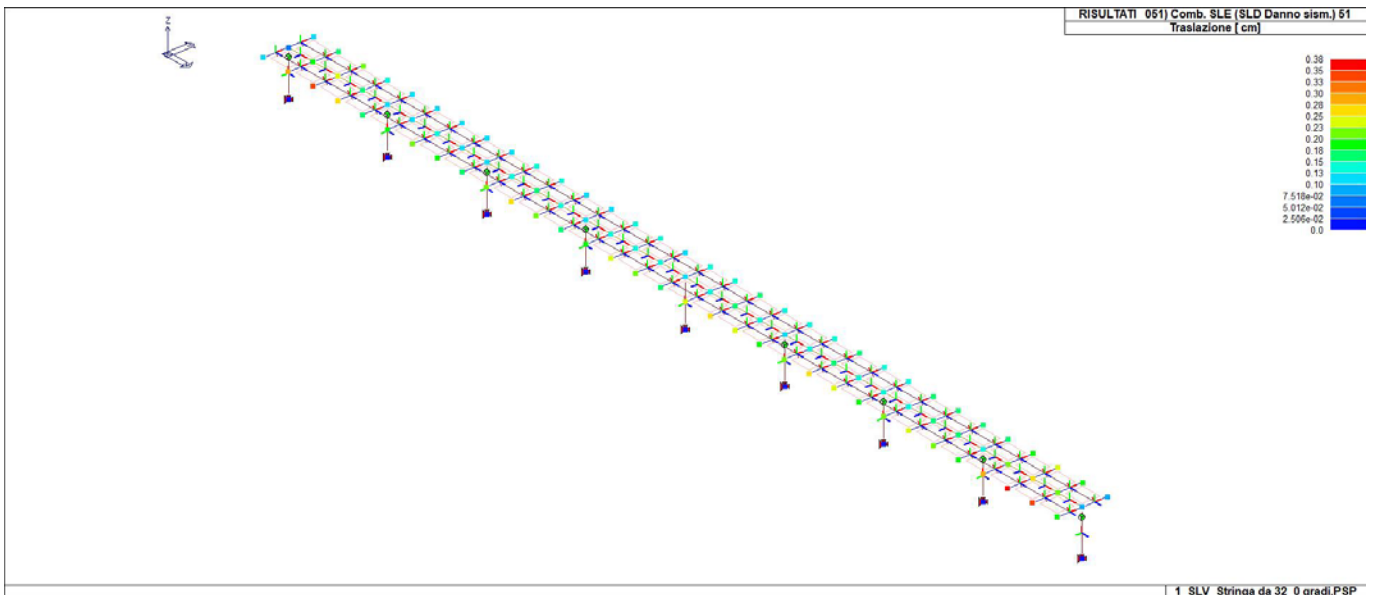
82	5	-0.71	-0.10	-0.27	1.04e-03	8.82e-04	-1.23e-03
82	19	0.13	-0.20	-0.42	2.40e-03	9.05e-04	-4.11e-04
82	26	-0.08	0.34	8.90e-03	-1.47e-03	8.94e-04	8.56e-04
82	37	-0.25	-0.04	-0.23	6.88e-04	8.94e-04	-4.38e-04
82	51	0.04	-0.08	-0.29	1.21e-03	9.01e-04	-1.71e-04
82	58	-0.02	0.13	-0.12	-2.89e-04	8.98e-04	3.44e-04
83	14	-0.70	0.04	-0.09	-8.42e-04	1.45e-03	9.81e-04
83	20	0.09	0.08	-0.24	-2.20e-03	1.48e-03	8.47e-04
83	26	-0.36	0.15	-0.24	-2.20e-03	1.46e-03	1.62e-03
83	46	-0.24	0.02	-0.05	-4.87e-04	1.46e-03	3.58e-04
83	52	0.03	0.03	-0.10	-1.01e-03	1.47e-03	3.32e-04
83	58	-0.13	0.06	-0.10	-1.01e-03	1.47e-03	6.25e-04
84	14	-0.71	0.10	-0.27	-1.04e-03	8.82e-04	1.23e-03
84	20	0.12	0.19	-0.42	-2.40e-03	9.05e-04	5.43e-04
84	26	-0.32	0.34	-0.42	-2.40e-03	8.94e-04	1.26e-03
84	46	-0.25	0.04	-0.23	-6.88e-04	8.94e-04	4.38e-04
84	52	0.04	0.07	-0.29	-1.21e-03	9.01e-04	2.17e-04
84	58	-0.11	0.13	-0.29	-1.21e-03	8.98e-04	4.82e-04
85	1	-0.61	-0.02	-6.36e-04	5.80e-04	1.45e-03	-3.00e-04
85	3	0.61	-0.03	-6.41e-04	5.80e-04	1.49e-03	-2.51e-04
85	26	-0.18	0.15	-6.38e-04	-1.93e-03	1.46e-03	1.54e-03
85	33	-0.21	-7.71e-03	-6.37e-04	2.25e-04	1.46e-03	-1.15e-04
85	35	0.21	-0.01	-6.39e-04	2.25e-04	1.48e-03	-9.86e-05
85	58	-0.06	0.06	-6.38e-04	-7.51e-04	1.47e-03	5.98e-04
86	1	-0.61	-0.05	-0.16	5.80e-04	8.82e-04	-2.24e-04
86	3	0.61	-0.06	-0.17	5.80e-04	9.17e-04	-1.83e-04
86	26	-0.18	0.34	-0.17	-1.93e-03	8.94e-04	1.12e-03
86	33	-0.21	-0.02	-0.17	2.25e-04	8.94e-04	-8.60e-05
86	35	0.21	-0.02	-0.17	2.25e-04	9.05e-04	-7.18e-05
86	58	-0.06	0.13	-0.17	-7.51e-04	8.98e-04	4.34e-04
87	5	-0.68	-0.12	-0.31	1.04e-03	-2.72e-04	-9.49e-04
87	19	0.19	-0.25	-0.46	2.40e-03	-2.65e-04	1.09e-04
87	26	-0.18	0.42	-0.03	-1.47e-03	-2.68e-04	-5.72e-05
87	37	-0.24	-0.05	-0.27	6.88e-04	-2.68e-04	-3.30e-04
87	51	0.06	-0.10	-0.33	1.21e-03	-2.66e-04	3.09e-05
87	58	-0.06	0.16	-0.16	-2.89e-04	-2.67e-04	-1.07e-05
88	14	-0.68	0.12	-0.31	-1.04e-03	-2.72e-04	9.49e-04
88	20	0.18	0.25	-0.46	-2.40e-03	-2.65e-04	2.10e-05
88	26	-0.22	0.42	-0.46	-2.40e-03	-2.68e-04	3.44e-04
88	46	-0.24	0.05	-0.27	-6.88e-04	-2.68e-04	3.30e-04
88	52	0.06	0.10	-0.33	-1.21e-03	-2.66e-04	1.41e-05
88	58	-0.08	0.16	-0.33	-1.21e-03	-2.67e-04	1.28e-04
89	1	-0.61	-0.07	-0.20	5.80e-04	-2.72e-04	-6.38e-05
89	3	0.61	-0.08	-0.21	5.80e-04	-2.61e-04	-3.01e-05
89	26	-0.18	0.42	-0.21	-1.93e-03	-2.68e-04	2.04e-04
89	33	-0.21	-0.03	-0.21	2.25e-04	-2.68e-04	-2.40e-05
89	35	0.21	-0.03	-0.21	2.25e-04	-2.65e-04	-1.24e-05
89	58	-0.06	0.16	-0.21	-7.51e-04	-2.67e-04	7.92e-05
90	6	-0.69	0.12	-0.09	-1.18e-04	-1.02e-03	-1.02e-03
90	19	0.23	-0.24	-0.37	2.40e-03	-1.03e-03	4.87e-04
90	26	-0.25	0.40	0.06	-1.47e-03	-1.03e-03	-7.32e-04
90	38	-0.24	0.05	-0.13	2.37e-04	-1.03e-03	-3.59e-04
90	51	0.08	-0.09	-0.24	1.21e-03	-1.03e-03	1.77e-04
90	58	-0.09	0.16	-0.07	-2.89e-04	-1.03e-03	-2.73e-04
91	13	-0.69	-0.12	-0.09	1.18e-04	-1.02e-03	1.02e-03
91	20	0.22	0.24	-0.37	-2.40e-03	-1.03e-03	-3.59e-04
91	26	-0.14	0.40	-0.36	-2.40e-03	-1.03e-03	-3.31e-04
91	45	-0.24	-0.05	-0.13	-2.37e-04	-1.03e-03	3.59e-04
91	52	0.08	0.09	-0.24	-1.21e-03	-1.03e-03	-1.33e-04
91	58	-0.05	0.16	-0.24	-1.21e-03	-1.03e-03	-1.34e-04
92	1	-0.61	-0.07	-0.11	5.80e-04	-1.02e-03	5.34e-05
92	3	0.61	-0.07	-0.12	5.80e-04	-1.04e-03	7.98e-05
92	26	-0.18	0.40	-0.11	-1.93e-03	-1.03e-03	-4.72e-04
92	33	-0.21	-0.03	-0.11	2.25e-04	-1.03e-03	2.13e-05
92	35	0.21	-0.03	-0.12	2.25e-04	-1.04e-03	3.04e-05
92	58	-0.06	0.15	-0.11	-7.51e-04	-1.03e-03	-1.83e-04
93	6	-0.68	0.10	0.02	-1.18e-04	-3.50e-04	-9.36e-04
93	17	-0.20	-0.22	-0.25	2.40e-03	-3.80e-04	-2.38e-04
93	26	-0.22	0.34	0.17	-1.47e-03	-3.80e-04	-4.52e-04
93	38	-0.24	0.04	-0.01	2.37e-04	-3.78e-04	-3.25e-04
93	49	-0.07	-0.08	-0.12	1.21e-03	-3.88e-04	-8.10e-05
93	58	-0.08	0.13	0.04	-2.89e-04	-3.88e-04	-1.64e-04
94	13	-0.68	-0.10	0.02	1.18e-04	-3.50e-04	9.36e-04
94	18	-0.19	0.22	-0.25	-2.40e-03	-3.80e-04	1.12e-04
94	26	-0.17	0.34	-0.25	-2.40e-03	-3.80e-04	-5.04e-05
94	45	-0.24	-0.04	-0.01	-2.37e-04	-3.78e-04	3.25e-04
94	50	-0.07	0.08	-0.12	-1.21e-03	-3.88e-04	3.76e-05

94	58	-0.06	0.13	-0.12	-1.21e-03	-3.88e-04	-2.56e-05
95	1	-0.61	-0.06	-1.64e-03	5.80e-04	-3.50e-04	-2.01e-06
95	26	-0.18	0.34	-1.93e-03	-1.93e-03	-3.80e-04	-1.91e-04
95	33	-0.21	-0.03	-1.63e-03	2.25e-04	-3.78e-04	0.0
95	58	-0.06	0.13	-1.62e-03	-7.51e-04	-3.88e-04	-7.40e-05
96	1	-0.68	-0.07	-0.13	1.04e-03	4.46e-04	-9.43e-04
96	17	-0.23	-0.24	-0.27	2.40e-03	4.08e-04	-4.84e-04
96	25	-0.23	-0.36	-0.27	2.40e-03	4.08e-04	-4.84e-04
96	33	-0.24	-0.03	-0.08	6.88e-04	4.11e-04	-3.28e-04
96	49	-0.08	-0.09	-0.14	1.21e-03	3.98e-04	-1.77e-04
96	57	-0.08	-0.14	-0.14	1.21e-03	3.98e-04	-1.76e-04
97	10	-0.68	0.07	-0.13	-1.04e-03	4.46e-04	9.43e-04
97	18	-0.22	0.24	-0.27	-2.40e-03	4.08e-04	3.60e-04
97	25	-0.17	-0.36	0.15	1.47e-03	4.08e-04	-8.22e-05
97	42	-0.24	0.03	-0.08	-6.88e-04	4.11e-04	3.28e-04
97	50	-0.08	0.09	-0.14	-1.21e-03	3.98e-04	1.34e-04
97	57	-0.06	-0.14	0.02	2.89e-04	3.98e-04	-3.79e-05
98	1	-0.61	-0.07	-0.03	5.80e-04	4.46e-04	-7.31e-05
98	25	-0.18	-0.36	-0.02	1.93e-03	4.08e-04	-2.23e-04
98	33	-0.21	-0.03	-0.02	2.25e-04	4.11e-04	-2.81e-05
98	57	-0.06	-0.14	-0.02	7.51e-04	3.98e-04	-8.64e-05
99	6	-0.68	0.11	-0.04	-1.18e-04	9.77e-05	-8.97e-04
99	17	-0.20	-0.25	-0.31	2.40e-03	7.93e-05	-2.67e-04
99	25	-0.19	-0.37	-0.31	2.40e-03	7.93e-05	-1.85e-04
99	38	-0.23	0.04	-0.07	2.37e-04	8.05e-05	-3.10e-04
99	49	-0.07	-0.10	-0.18	1.21e-03	7.41e-05	-9.23e-05
99	57	-0.07	-0.14	-0.18	1.21e-03	7.41e-05	-6.06e-05
100	13	-0.68	-0.11	-0.04	1.18e-04	9.77e-05	8.97e-04
100	18	-0.19	0.25	-0.31	-2.40e-03	7.93e-05	1.44e-04
100	25	-0.20	-0.37	0.12	1.47e-03	7.93e-05	2.16e-04
100	45	-0.23	-0.04	-0.07	-2.37e-04	8.05e-05	3.10e-04
100	50	-0.07	0.10	-0.18	-1.21e-03	7.41e-05	4.99e-05
100	57	-0.07	-0.14	-0.01	2.89e-04	7.41e-05	7.78e-05
101	1	-0.61	-0.08	-0.07	5.80e-04	9.77e-05	-6.16e-06
101	25	-0.18	-0.37	-0.06	1.93e-03	7.93e-05	7.54e-05
101	33	-0.21	-0.03	-0.06	2.25e-04	8.05e-05	-2.19e-06
101	57	-0.06	-0.14	-0.06	7.51e-04	7.41e-05	2.93e-05
102	6	-0.69	0.10	-0.02	-1.18e-04	-3.98e-04	-9.92e-04
102	17	-0.18	-0.24	-0.29	2.40e-03	-3.69e-04	-5.07e-05
102	25	-0.16	-0.34	-0.29	2.40e-03	-3.69e-04	1.33e-04
102	38	-0.24	0.04	-0.05	2.37e-04	-3.71e-04	-3.47e-04
102	49	-0.06	-0.09	-0.15	1.21e-03	-3.61e-04	-8.28e-06
102	57	-0.05	-0.13	-0.15	1.21e-03	-3.61e-04	6.30e-05
103	13	-0.69	-0.10	-0.02	1.18e-04	-3.98e-04	9.92e-04
103	18	-0.17	0.24	-0.29	-2.40e-03	-3.69e-04	-7.18e-05
103	25	-0.24	-0.34	0.14	1.47e-03	-3.69e-04	5.34e-04
103	45	-0.24	-0.04	-0.05	-2.37e-04	-3.71e-04	3.47e-04
103	50	-0.06	0.09	-0.15	-1.21e-03	-3.61e-04	-3.39e-05
103	57	-0.08	-0.13	0.01	2.89e-04	-3.61e-04	2.01e-04
104	1	-0.61	-0.07	-0.04	5.80e-04	-3.98e-04	5.96e-05
104	25	-0.18	-0.33	-0.04	1.93e-03	-3.69e-04	3.94e-04
104	33	-0.21	-0.03	-0.04	2.25e-04	-3.71e-04	2.33e-05
104	57	-0.06	-0.13	-0.03	7.51e-04	-3.61e-04	1.53e-04
105	6	-0.68	0.09	0.02	-1.18e-04	-4.39e-05	-8.91e-04
105	19	0.20	-0.22	-0.25	2.40e-03	1.49e-04	2.14e-04
105	25	-0.20	-0.29	-0.25	2.40e-03	6.00e-05	-2.04e-04
105	38	-0.23	0.03	-0.01	2.37e-04	5.33e-05	-3.08e-04
105	51	0.07	-0.09	-0.12	1.21e-03	1.20e-04	7.17e-05
105	57	-0.07	-0.11	-0.12	1.21e-03	8.91e-05	-6.78e-05
106	13	-0.68	-0.09	0.02	1.18e-04	-4.39e-05	8.91e-04
106	20	0.19	0.22	-0.25	-2.40e-03	1.49e-04	-9.14e-05
106	25	-0.20	-0.29	0.17	1.47e-03	6.00e-05	1.97e-04
106	45	-0.23	-0.03	-0.01	-2.37e-04	5.33e-05	3.08e-04
106	52	0.06	0.09	-0.12	-1.21e-03	1.20e-04	-2.94e-05
106	57	-0.07	-0.11	0.04	2.89e-04	8.91e-05	7.06e-05
107	1	-0.61	-0.07	-1.33e-03	5.80e-04	-4.39e-05	-1.83e-05
107	3	0.61	-0.07	-1.47e-03	5.80e-04	2.53e-04	-1.05e-05
107	25	-0.18	-0.29	-1.38e-03	1.93e-03	6.00e-05	5.69e-05
107	33	-0.21	-0.03	-1.38e-03	2.25e-04	5.33e-05	-6.92e-06
107	35	0.21	-0.03	-1.42e-03	2.25e-04	1.56e-04	-4.26e-06
107	57	-0.06	-0.11	-1.39e-03	7.51e-04	8.91e-05	2.21e-05
108	1	-0.69	-0.07	-0.14	1.04e-03	3.27e-04	-9.61e-04
108	19	0.17	-0.25	-0.32	2.40e-03	5.87e-04	-2.78e-05
108	25	-0.23	-0.32	-0.30	2.40e-03	4.67e-04	-5.47e-04
108	33	-0.24	-0.03	-0.11	6.88e-04	4.58e-04	-3.35e-04
108	51	0.06	-0.10	-0.18	1.21e-03	5.47e-04	-2.22e-05
108	57	-0.08	-0.12	-0.18	1.21e-03	5.06e-04	-2.01e-04

Nodo	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
	-0.71	-0.42	-0.46	-2.40e-03	-2.06e-03	-1.48e-03
	0.61	0.42	0.19	2.40e-03	1.49e-03	1.62e-03



41_RIS_SPOSTAMENTI_001_Comb. SLU A1 (SLV sism.) 1



41_RIS_SPOSTAMENTI_051_Comb. SLE (SLD Danno sism.) 51

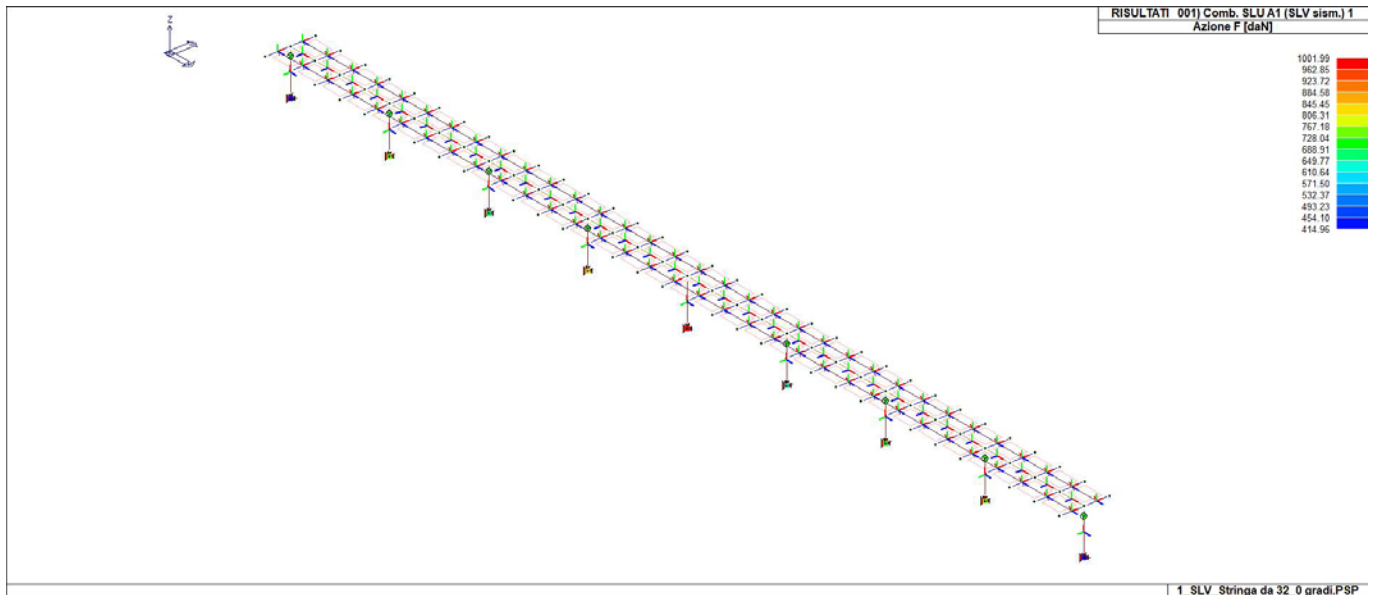
Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
50	1	-296.30	-68.22	-291.63	1.364e+04	-5.926e+04	21.67
50	3	296.30	-51.59	-289.41	1.032e+04	5.926e+04	24.07
50	17	-88.89	-202.18	-290.85	4.044e+04	-1.778e+04	75.87
50	33	-102.12	-26.12	-290.90	5223.55	-2.042e+04	8.46
50	35	102.12	-20.38	-290.14	4076.88	2.042e+04	9.29
50	49	-30.64	-78.36	-290.63	1.567e+04	-6127.36	29.46

73	1	-296.54	-116.29	-627.39	2.326e+04	-5.931e+04	-1.05
73	3	296.54	-116.62	-573.97	2.332e+04	5.931e+04	-0.67
73	18	-88.96	388.24	-608.69	-7.765e+04	-1.779e+04	2.80
73	33	-102.20	-45.14	-609.89	9028.57	-2.044e+04	-0.40
73	35	102.20	-45.26	-591.48	9051.58	2.044e+04	-0.27
73	50	-30.66	150.69	-603.44	-3.014e+04	-6132.26	1.09
74	1	-296.30	-25.24	-289.41	5047.85	-5.926e+04	-14.79
74	3	296.30	-41.87	-291.63	8374.87	5.926e+04	-12.39
74	26	-88.89	202.18	-290.19	-4.044e+04	-1.778e+04	75.87
74	33	-102.12	-10.16	-290.14	2031.53	-2.042e+04	-5.69
74	35	102.12	-15.89	-290.90	3178.20	2.042e+04	-4.86
74	58	-30.64	78.36	-290.41	-1.567e+04	-6127.36	29.46
75	1	-296.56	-85.31	-698.05	1.706e+04	-5.931e+04	-0.10
75	3	296.56	-85.58	-684.73	1.712e+04	5.931e+04	0.85
75	26	-88.97	450.82	-693.39	-9.016e+04	-1.779e+04	-9.41
75	33	-102.21	-33.12	-693.69	6623.52	-2.044e+04	-0.02
75	35	102.21	-33.21	-689.10	6641.69	2.044e+04	0.31
75	58	-30.66	174.97	-692.08	-3.499e+04	-6132.73	-3.65
76	1	-296.56	-135.37	-684.73	2.707e+04	-5.931e+04	-3.25
76	3	296.56	-135.10	-698.05	2.702e+04	5.931e+04	-2.31
76	17	-88.97	-450.82	-689.39	9.016e+04	-1.779e+04	-9.41
76	33	-102.21	-52.53	-689.10	1.051e+04	-2.044e+04	-1.24
76	35	102.21	-52.44	-693.69	1.049e+04	2.044e+04	-0.92
76	49	-30.66	-174.97	-690.70	3.499e+04	-6132.73	-3.65
77	1	-296.24	-109.31	-525.04	2.186e+04	-5.925e+04	-0.95
77	3	296.24	-109.26	-725.66	2.185e+04	5.925e+04	-0.46
77	17	-88.87	-364.28	-595.26	7.286e+04	-1.777e+04	-2.43
77	33	-102.10	-42.42	-590.78	8484.73	-2.042e+04	-0.36
77	35	102.10	-42.41	-659.92	8481.42	2.042e+04	-0.19
77	49	-30.63	-141.39	-614.98	2.828e+04	-6125.95	-0.94
78	1	-782.75	-101.97	-617.15	2.039e+04	-9.160e+04	-1.01
78	17	-234.83	-339.89	-617.15	6.798e+04	-2.748e+04	-2.61
78	33	-269.78	-39.58	-617.15	7915.21	-3.157e+04	-0.38
78	49	-80.93	-131.92	-617.15	2.638e+04	-9471.44	-1.01
79	1	-296.24	-94.35	-725.66	1.887e+04	-5.925e+04	-1.03
79	3	296.24	-94.40	-525.04	1.888e+04	5.925e+04	-0.54
79	26	-88.87	364.28	-655.44	-7.286e+04	-1.777e+04	-2.43
79	33	-102.10	-36.62	-659.92	7324.35	-2.042e+04	-0.39
79	35	102.10	-36.64	-590.78	7327.66	2.042e+04	-0.22
79	58	-30.63	141.39	-635.72	-2.828e+04	-6125.95	-0.94
80	1	-296.54	-86.87	-573.97	1.737e+04	-5.931e+04	-0.90
80	3	296.54	-86.54	-627.39	1.731e+04	5.931e+04	-0.52
80	25	-88.96	-388.24	-592.67	7.765e+04	-1.779e+04	2.80
80	33	-102.20	-33.71	-591.48	6742.12	-2.044e+04	-0.34
80	35	102.20	-33.60	-609.89	6719.12	2.044e+04	-0.21
80	57	-30.66	-150.69	-597.92	3.014e+04	-6132.26	1.09

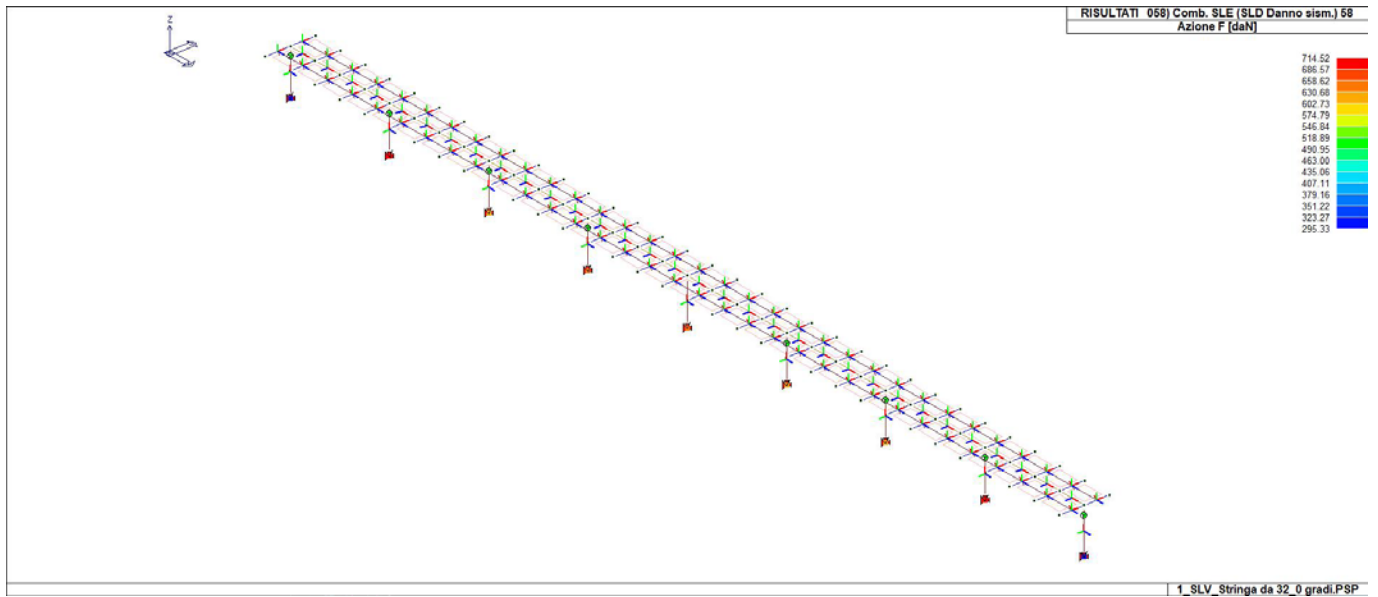
Nodo	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	-782.75	-450.82	-725.66	-9.016e+04	-9.160e+04	-14.79
	296.56	450.82	-289.41	9.016e+04	5.931e+04	75.87

Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
50	1	-296.30	-68.22	-291.63	1.364e+04	-5.926e+04	21.67
	3	296.30	-51.59	-289.41	1.032e+04	5.926e+04	24.07
	20	88.89	202.18	-290.19	-4.044e+04	1.778e+04	-75.87
	17	-88.89	-202.18	-290.85	4.044e+04	-1.778e+04	75.87
	1	-296.30	-68.22	-291.63	1.364e+04	-5.926e+04	21.67
	3	296.30	-51.59	-289.41	1.032e+04	5.926e+04	24.07
73	1	-296.54	-116.29	-627.39	2.326e+04	-5.931e+04	-1.05
	3	296.54	-116.62	-573.97	2.332e+04	5.931e+04	-0.67
	18	-88.96	388.24	-608.69	-7.765e+04	-1.779e+04	2.80
	19	88.96	-388.24	-592.67	7.765e+04	1.779e+04	-2.80
	1	-296.54	-116.29	-627.39	2.326e+04	-5.931e+04	-1.05
	3	296.54	-116.62	-573.97	2.332e+04	5.931e+04	-0.67
74	3	296.30	-41.87	-291.63	8374.87	5.926e+04	-12.39
	1	-296.30	-25.24	-289.41	5047.85	-5.926e+04	-14.79
	26	-88.89	202.18	-290.19	-4.044e+04	-1.778e+04	75.87
	27	88.89	-202.18	-290.85	4.044e+04	1.778e+04	-75.87
	1	-296.30	-25.24	-289.41	5047.85	-5.926e+04	-14.79
	3	296.30	-41.87	-291.63	8374.87	5.926e+04	-12.39
75	1	-296.56	-85.31	-698.05	1.706e+04	-5.931e+04	-0.10
	3	296.56	-85.58	-684.73	1.712e+04	5.931e+04	0.85
	26	-88.97	450.82	-693.39	-9.016e+04	-1.779e+04	-9.41
	27	88.97	-450.82	-689.39	9.016e+04	1.779e+04	9.41
	1	-296.56	-85.31	-698.05	1.706e+04	-5.931e+04	-0.10

76	3	296.56	-85.58	-684.73	1.712e+04	5.931e+04	0.85
	3	296.56	-135.10	-698.05	2.702e+04	5.931e+04	-2.31
	1	-296.56	-135.37	-684.73	2.707e+04	-5.931e+04	-3.25
	20	88.97	450.82	-693.39	-9.016e+04	1.779e+04	9.41
	17	-88.97	-450.82	-689.39	9.016e+04	-1.779e+04	-9.41
77	1	-296.56	-135.37	-684.73	2.707e+04	-5.931e+04	-3.25
	3	296.56	-135.10	-698.05	2.702e+04	5.931e+04	-2.31
	3	296.24	-109.26	-725.66	2.185e+04	5.925e+04	-0.46
	1	-296.24	-109.31	-525.04	2.186e+04	-5.925e+04	-0.95
	20	88.87	364.28	-655.44	-7.286e+04	1.777e+04	2.43
78	17	-88.87	-364.28	-595.26	7.286e+04	-1.777e+04	-2.43
	1	-296.24	-109.31	-525.04	2.186e+04	-5.925e+04	-0.95
	3	296.24	-109.26	-725.66	2.185e+04	5.925e+04	-0.46
	1	-782.75	-101.97	-617.15	2.039e+04	-9.160e+04	-1.01
	1	-782.75	-101.97	-617.15	2.039e+04	-9.160e+04	-1.01
79	18	-234.83	339.89	-617.15	-6.798e+04	-2.748e+04	2.46
	17	-234.83	-339.89	-617.15	6.798e+04	-2.748e+04	-2.61
	1	-782.75	-101.97	-617.15	2.039e+04	-9.160e+04	-1.01
	3	782.75	-101.97	-617.15	2.039e+04	9.160e+04	-0.52
	1	-296.24	-94.35	-525.04	1.887e+04	-5.925e+04	-1.03
80	3	296.24	-94.40	-525.04	1.888e+04	5.925e+04	-0.54
	26	-88.87	364.28	-655.44	-7.286e+04	-1.777e+04	-2.43
	27	88.87	-364.28	-595.26	7.286e+04	1.777e+04	2.43
	1	-296.24	-94.35	-525.04	1.887e+04	-5.925e+04	-1.03
	3	296.24	-94.40	-525.04	1.888e+04	5.925e+04	-0.54
80	3	296.54	-86.54	-627.39	1.731e+04	5.931e+04	-0.52
	1	-296.54	-86.87	-573.97	1.737e+04	-5.931e+04	-0.90
	28	88.96	388.24	-608.69	-7.765e+04	1.779e+04	-2.80
	25	-88.96	-388.24	-592.67	7.765e+04	-1.779e+04	2.80
	1	-296.54	-86.87	-573.97	1.737e+04	-5.931e+04	-0.90
3	296.54	-86.54	-627.39	1.731e+04	5.931e+04	-0.52	



42_RIS_REAZIONI_001_Comb. SLU A1 (SLV sism.) 1



42_RIS_REAZIONI_058_Comb. SLE (SLD Danno sism.) 58

RISULTATI ELEMENTI TIPO TRAVE

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**

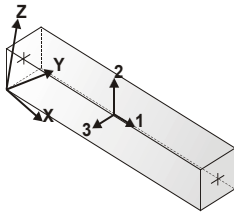
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

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.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
5	1	2.707e+04	0.0	0.10	0.0	0.0	-684.73	-135.37	296.56	-3.25	-5.931e+04	2.707e+04
		0.0	-5.931e+04	-0.61	0.0	200.0	-623.82	-135.37	296.56	-3.25	0.0	0.0
5	3	2.702e+04	5.931e+04	0.10	0.0	0.0	-698.05	-135.10	-296.56	-2.31	5.931e+04	2.702e+04
		0.0	0.0	0.61	0.0	200.0	-637.14	-135.10	-296.56	-2.31	0.0	0.0
5	17	9.016e+04	0.0	0.34	0.0	0.0	-689.39	-450.82	88.97	-9.41	-1.779e+04	9.016e+04
		0.0	-1.779e+04	-0.18	0.0	200.0	-628.48	-450.82	88.97	-9.41	0.0	0.0
5	20	0.0	1.779e+04	-0.34	0.0	0.0	-693.39	450.82	-88.97	9.41	1.779e+04	-9.016e+04
		-9.016e+04	0.0	0.18	0.0	200.0	-632.48	450.82	-88.97	9.41	0.0	0.0
5	33	1.051e+04	0.0	0.04	0.0	0.0	-689.10	-52.53	102.21	-1.24	-2.044e+04	1.051e+04
		0.0	-2.044e+04	-0.21	0.0	200.0	-628.18	-52.53	102.21	-1.24	0.0	0.0
5	35	1.049e+04	2.044e+04	0.04	0.0	0.0	-693.69	-52.44	-102.21	-0.92	2.044e+04	1.049e+04
		0.0	0.0	0.21	0.0	200.0	-632.77	-52.44	-102.21	-0.92	0.0	0.0
5	49	3.499e+04	0.0	0.13	0.0	0.0	-690.70	-174.97	30.66	-3.65	-6132.73	3.499e+04
		0.0	-6132.73	-0.06	0.0	200.0	-629.79	-174.97	30.66	-3.65	0.0	0.0
5	52	0.0	6132.73	-0.13	0.0	0.0	-692.08	174.97	-30.66	3.65	6132.73	-3.499e+04
		-3.499e+04	0.0	0.06	0.0	200.0	-631.17	174.97	-30.66	3.65	0.0	0.0
6	1	1.364e+04	0.0	0.05	0.0	0.0	-291.63	-68.22	296.30	21.67	-5.926e+04	1.364e+04
		0.0	-5.926e+04	-0.61	0.0	200.0	-230.71	-68.22	296.30	21.67	0.0	0.0
6	3	1.032e+04	5.926e+04	0.04	0.0	0.0	-289.41	-51.59	-296.30	24.07	5.926e+04	1.032e+04
		0.0	0.0	0.61	0.0	200.0	-228.50	-51.59	-296.30	24.07	0.0	0.0
6	17	4.044e+04	0.0	0.15	0.0	0.0	-290.85	-202.18	88.89	75.87	-1.778e+04	4.044e+04
		0.0	-1.778e+04	-0.18	0.0	200.0	-229.94	-202.18	88.89	75.87	0.0	0.0
6	20	0.0	1.778e+04	-0.15	0.0	0.0	-290.19	202.18	-88.89	-75.87	1.778e+04	-4.044e+04
		-4.044e+04	0.0	0.18	0.0	200.0	-229.27	202.18	-88.89	-75.87	0.0	0.0
6	33	5223.55	0.0	0.02	0.0	0.0	-290.90	-26.12	102.12	8.46	-2.042e+04	5223.55
		0.0	-2.042e+04	-0.21	0.0	200.0	-229.99	-26.12	102.12	8.46	0.0	0.0
6	35	4076.88	2.042e+04	0.02	0.0	0.0	-290.14	-20.38	-102.12	9.29	2.042e+04	4076.88
		0.0	0.0	0.21	0.0	200.0	-229.22	-20.38	-102.12	9.29	0.0	0.0
6	49	1.567e+04	0.0	0.06	0.0	0.0	-290.63	-78.36	30.64	29.46	-6127.36	1.567e+04
		0.0	-6127.36	-0.06	0.0	200.0	-229.72	-78.36	30.64	29.46	0.0	0.0
6	52	0.0	6127.36	-0.06	0.0	0.0	-290.41	78.36	-30.64	-29.46	6127.36	-1.567e+04
		-1.567e+04	0.0	0.06	0.0	200.0	-229.49	78.36	-30.64	-29.46	0.0	0.0
16	1	5047.85	0.0	0.02	0.0	0.0	-289.41	-25.24	296.30	-14.79	-5.926e+04	5047.85
		0.0	-5.926e+04	-0.61	0.0	200.0	-228.50	-25.24	296.30	-14.79	0.0	0.0
16	3	8374.87	5.926e+04	0.03	0.0	0.0	-291.63	-41.87	-296.30	-12.39	5.926e+04	8374.87
		0.0	0.0	0.61	0.0	200.0	-230.71	-41.87	-296.30	-12.39	0.0	0.0
16	26	0.0	0.0	-0.15	0.0	0.0	-290.19	202.18	88.89	75.87	-1.778e+04	-4.044e+04
		-4.044e+04	-1.778e+04	-0.18	0.0	200.0	-229.27	202.18	88.89	75.87	0.0	0.0
16	27	4.044e+04	1.778e+04	0.15	0.0	0.0	-290.85	-202.18	-88.89	-75.87	1.778e+04	4.044e+04
		0.0	0.0	0.18	0.0	200.0	-229.94	-202.18	-88.89	-75.87	0.0	0.0
16	33	2031.53	0.0	7.71e-03	0.0	0.0	-290.14	-10.16	102.12	-5.69	-2.042e+04	2031.53
		0.0	-2.042e+04	-0.21	0.0	200.0	-229.22	-10.16	102.12	-5.69	0.0	0.0
16	35	3178.20	2.042e+04	0.01	0.0	0.0	-290.90	-15.89	-102.12	-4.86	2.042e+04	3178.20
		0.0	0.0	0.21	0.0	200.0	-229.99	-15.89	-102.12	-4.86	0.0	0.0
16	58	0.0	0.0	-0.06	0.0	0.0	-290.41	78.36	30.64	29.46	-6127.36	-1.567e+04
		-1.567e+04	-6127.36	-0.06	0.0	200.0	-229.49	78.36	30.64	29.46	0.0	0.0
16	59	1.567e+04	6127.36	0.06	0.0	0.0	-290.63	-78.36	-30.64	-29.46	6127.36	1.567e+04
		0.0	0.0	0.06	0.0	200.0	-229.72	-78.36	-30.64	-29.46	0.0	0.0
22	1	1.706e+04	0.0	0.06	0.0	0.0	-698.05	-85.31	296.56	-0.10	-5.931e+04	1.706e+04
		0.0	-5.931e+04	-0.61	0.0	200.0	-637.14	-85.31	296.56	-0.10	0.0	0.0
22	3	1.712e+04	5.931e+04	0.06	0.0	0.0	-684.73	-85.58	-296.56	0.85	5.931e+04	1.712e+04
		0.0	0.0	0.61	0.0	200.0	-623.82	-85.58	-296.56	0.85	0.0	0.0
22	26	0.0	0.0	-0.34	0.0	0.0	-693.39	450.82	88.97	-9.41	-1.779e+04	-9.016e+04
		-9.016e+04	-1.779e+04	-0.18	0.0	200.0	-632.48	450.82	88.97	-9.41	0.0	0.0
22	27	9.016e+04	1.779e+04	0.34	0.0	0.0	-689.39	-450.82	-88.97	9.41	1.779e+04	9.016e+04
		0.0	0.0	0.18	0.0	200.0	-628.48	-450.82	-88.97	9.41	0.0	0.0
22	33	6623.52	0.0	0.03	0.0	0.0	-693.69	-33.12	102.21	-0.02	-2.044e+04	6623.52
		0.0	-2.044e+04	-0.21	0.0	200.0	-632.77	-33.12	102.21	-0.02	0.0	0.0
22	35	6641.69	2.044e+04	0.03	0.0	0.0	-689.10	-33.21	-102.21	0.31	2.044e+04	6641.69

		0.0	0.0	0.21	0.0	200.0	-628.18	-33.21	-102.21	0.31	0.0	0.0
22	58	0.0	0.0	-0.13	0.0	0.0	-692.08	174.97	30.66	-3.65	-6132.73	-3.499e+04
		-3.499e+04	-6132.73	-0.06	0.0	200.0	-631.17	174.97	30.66	-3.65	0.0	0.0
22	59	3.499e+04	6132.73	0.13	0.0	0.0	-690.70	-174.97	-30.66	3.65	6132.73	3.499e+04
		0.0	0.0	0.06	0.0	200.0	-629.79	-174.97	-30.66	3.65	0.0	0.0
48	1	1.887e+04	0.0	0.07	0.0	0.0	-725.66	-94.35	296.24	-1.03	-5.925e+04	1.887e+04
		0.0	-5.925e+04	-0.61	0.0	200.0	-664.75	-94.35	296.24	-1.03	0.0	0.0
48	3	1.888e+04	5.925e+04	0.07	0.0	0.0	-525.04	-94.40	-296.24	-0.54	5.925e+04	1.888e+04
		0.0	0.0	0.61	0.0	200.0	-464.12	-94.40	-296.24	-0.54	0.0	0.0
48	26	0.0	0.0	-0.28	0.0	0.0	-655.44	364.28	88.87	-2.43	-1.777e+04	-7.286e+04
		-7.286e+04	-1.777e+04	-0.18	0.0	200.0	-594.53	364.28	88.87	-2.43	0.0	0.0
48	27	7.286e+04	1.777e+04	0.28	0.0	0.0	-595.26	-364.28	-88.87	2.43	1.777e+04	7.286e+04
		0.0	0.0	0.18	0.0	200.0	-534.34	-364.28	-88.87	2.43	0.0	0.0
48	33	7324.35	0.0	0.03	0.0	0.0	-659.92	-36.62	102.10	-0.39	-2.042e+04	7324.35
		0.0	-2.042e+04	-0.21	0.0	200.0	-599.01	-36.62	102.10	-0.39	0.0	0.0
48	35	7327.66	2.042e+04	0.03	0.0	0.0	-590.78	-36.64	-102.10	-0.22	2.042e+04	7327.66
		0.0	0.0	0.21	0.0	200.0	-529.86	-36.64	-102.10	-0.22	0.0	0.0
48	58	0.0	0.0	-0.11	0.0	0.0	-635.72	141.39	30.63	-0.94	-6125.95	-2.828e+04
		-2.828e+04	-6125.95	-0.06	0.0	200.0	-574.81	141.39	30.63	-0.94	0.0	0.0
48	59	2.828e+04	6125.95	0.11	0.0	0.0	-614.98	-141.39	-30.63	0.94	6125.95	2.828e+04
		0.0	0.0	0.06	0.0	200.0	-554.06	-141.39	-30.63	0.94	0.0	0.0
52	1	1.737e+04	0.0	0.07	0.0	0.0	-573.97	-86.87	296.54	-0.90	-5.931e+04	1.737e+04
		0.0	-5.931e+04	-0.61	0.0	200.0	-513.06	-86.87	296.54	-0.90	0.0	0.0
52	3	1.731e+04	5.931e+04	0.07	0.0	0.0	-627.39	-86.54	-296.54	-0.52	5.931e+04	1.731e+04
		0.0	0.0	0.61	0.0	200.0	-566.47	-86.54	-296.54	-0.52	0.0	0.0
52	25	7.765e+04	0.0	0.29	0.0	0.0	-592.67	-388.24	88.96	2.80	-1.779e+04	7.765e+04
		0.0	-1.779e+04	-0.18	0.0	200.0	-531.75	-388.24	88.96	2.80	0.0	0.0
52	28	0.0	1.779e+04	-0.29	0.0	0.0	-608.69	388.24	-88.96	-2.80	1.779e+04	-7.765e+04
		-7.765e+04	0.0	0.18	0.0	200.0	-547.78	388.24	-88.96	-2.80	0.0	0.0
52	33	6742.12	0.0	0.03	0.0	0.0	-591.48	-33.71	102.20	-0.34	-2.044e+04	6742.12
		0.0	-2.044e+04	-0.21	0.0	200.0	-530.56	-33.71	102.20	-0.34	0.0	0.0
52	35	6719.12	2.044e+04	0.03	0.0	0.0	-609.89	-33.60	-102.20	-0.21	2.044e+04	6719.12
		0.0	0.0	0.21	0.0	200.0	-548.97	-33.60	-102.20	-0.21	0.0	0.0
52	57	3.014e+04	0.0	0.11	0.0	0.0	-597.92	-150.69	30.66	1.09	-6132.26	3.014e+04
		0.0	-6132.26	-0.06	0.0	200.0	-537.00	-150.69	30.66	1.09	0.0	0.0
52	60	0.0	6132.26	-0.11	0.0	0.0	-603.44	150.69	-30.66	-1.09	6132.26	-3.014e+04
		-3.014e+04	0.0	0.06	0.0	200.0	-542.53	150.69	-30.66	-1.09	0.0	0.0
77	1	2.039e+04	6.495e+04	0.08	0.0	0.0	-617.15	-101.97	782.75	-1.01	-9.160e+04	2.039e+04
		0.0	-9.160e+04	-0.61	0.0	200.0	-556.24	-101.97	782.75	-1.01	6.495e+04	0.0
77	3	2.039e+04	9.160e+04	0.08	0.0	0.0	-617.15	-101.97	-782.75	-0.52	9.160e+04	2.039e+04
		0.0	-6.495e+04	0.61	0.0	200.0	-556.24	-101.97	-782.75	-0.52	-6.495e+04	0.0
77	17	6.798e+04	1.948e+04	0.26	0.0	0.0	-617.15	-339.89	234.83	-2.61	-2.748e+04	6.798e+04
		0.0	-2.748e+04	-0.18	0.0	200.0	-556.24	-339.89	234.83	-2.61	1.948e+04	0.0
77	18	0.0	1.948e+04	-0.26	0.0	0.0	-617.15	339.89	234.83	2.46	-2.748e+04	-6.798e+04
		-6.798e+04	-2.748e+04	-0.18	0.0	200.0	-556.24	339.89	234.83	2.46	1.948e+04	0.0
77	33	7915.21	2.238e+04	0.03	0.0	0.0	-617.15	-39.58	269.78	-0.38	-3.157e+04	7915.21
		0.0	-3.157e+04	-0.21	0.0	200.0	-556.24	-39.58	269.78	-0.38	2.238e+04	0.0
77	35	7915.21	3.157e+04	0.03	0.0	0.0	-617.15	-39.58	-269.78	-0.21	3.157e+04	7915.21
		0.0	-2.238e+04	0.21	0.0	200.0	-556.24	-39.58	-269.78	-0.21	-2.238e+04	0.0
77	49	2.638e+04	6715.31	0.10	0.0	0.0	-617.15	-131.92	80.93	-1.01	-9471.44	2.638e+04
		0.0	-9471.44	-0.06	0.0	200.0	-556.24	-131.92	80.93	-1.01	6715.31	0.0
77	50	0.0	6715.31	-0.10	0.0	0.0	-617.15	131.92	80.93	0.96	-9471.44	-2.638e+04
		-2.638e+04	-9471.44	-0.06	0.0	200.0	-556.24	131.92	80.93	0.96	6715.31	0.0
87	1	2.326e+04	0.0	0.09	0.0	0.0	-627.39	-116.29	296.54	-1.05	-5.931e+04	2.326e+04
		0.0	-5.931e+04	-0.61	0.0	200.0	-566.47	-116.29	296.54	-1.05	0.0	0.0
87	3	2.332e+04	5.931e+04	0.09	0.0	0.0	-573.97	-116.62	-296.54	-0.67	5.931e+04	2.332e+04
		0.0	0.0	0.61	0.0	200.0	-513.06	-116.62	-296.54	-0.67	0.0	0.0
87	18	0.0	0.0	-0.29	0.0	0.0	-608.69	388.24	88.96	2.80	-1.779e+04	-7.765e+04
		-7.765e+04	-1.779e+04	-0.18	0.0	200.0	-547.78	388.24	88.96	2.80	0.0	0.0
87	19	7.765e+04	1.779e+04	0.29	0.0	0.0	-592.67	-388.24	-88.96	-2.80	1.779e+04	7.765e+04
		0.0	0.0	0.18	0.0	200.0	-531.75	-388.24	-88.96	-2.80	0.0	0.0
87	33	9028.57	0.0	0.03	0.0	0.0	-609.89	-45.14	102.20	-0.40	-2.044e+04	9028.57
		0.0	-2.044e+04	-0.21	0.0	200.0	-548.97	-45.14	102.20	-0.40	0.0	0.0
87	35	9051.58	2.044e+04	0.03	0.0	0.0	-591.48	-45.26	-102.20	-0.27	2.044e+04	9051.58
		0.0	0.0	0.21	0.0	200.0	-530.56	-45.26	-102.20	-0.27	0.0	0.0
87	50	0.0	0.0	-0.11	0.0	0.0	-603.44	150.69	30.66	1.09	-6132.26	-3.014e+04
		-3.014e+04	-6132.26	-0.06	0.0	200.0	-542.53	150.69	30.66	1.09	0.0	0.0
87	51	3.014e+04	6132.26	0.11	0.0	0.0	-597.92	-150.69	-30.66	-1.09	6132.26	3.014e+04
		0.0	0.0	0.06	0.0	200.0	-537.00	-150.69	-30.66	-1.09	0.0	0.0
102	1	2.186e+04	0.0	0.08	0.0	0.0	-525.04	-109.31	296.24	-0.95	-5.925e+04	2.186e+04
		0.0	-5.925e+04	-0.61	0.0	200.0	-464.12	-109.31	296.24	-0.95	0.0	0.0
102	3	2.185e+04	5.925e+04	0.08	0.0	0.0	-725.66	-109.26	-296.24	-0.46	5.925e+04	2.185e+04
		0.0	0.0	0.61	0.0	200.0	-664.75	-109.26	-296.24	-0.46	0.0	0.0
102	17	7.286e+04	0.0	0.28	0.0	0.0	-595.26	-364.28	88.87	-2.43	-1.777e+04	7.286e+04
		0.0	-1.777e+04	-0.18	0.0	200.0	-534.34	-364.28	88.87	-2.43	0.0	0.0
102	20	0.0	1.777e+04	-0.28	0.0	0.0	-655.44	364.28	-88.87	2.43	1.777e+04	-7.286e+04
		-7.286e+04	0.0	0.18	0.0	200.0	-594.53	364.28	-88.87	2.43	0.0	0.0

102	33	8484.73	0.0	0.03	0.0	0.0	-590.78	-42.42	102.10	-0.36	-2.042e+04	8484.73
		0.0	-2.042e+04	-0.21	0.0	200.0	-529.86	-42.42	102.10	-0.36	0.0	0.0
102	35	8481.42	2.042e+04	0.03	0.0	0.0	-659.92	-42.41	-102.10	-0.19	2.042e+04	8481.42
		0.0	0.0	0.21	0.0	200.0	-599.01	-42.41	-102.10	-0.19	0.0	0.0
102	49	2.828e+04	0.0	0.11	0.0	0.0	-614.98	-141.39	30.63	-0.94	-6125.95	2.828e+04
		0.0	-6125.95	-0.06	0.0	200.0	-554.06	-141.39	30.63	-0.94	0.0	0.0
102	52	0.0	6125.95	-0.11	0.0	0.0	-635.72	141.39	-30.63	0.94	6125.95	-2.828e+04
		-2.828e+04	0.0	0.06	0.0	200.0	-574.81	141.39	-30.63	0.94	0.0	0.0
Pilas.		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T		
		-9.016e+04	-9.160e+04	-0.61	0.0		-725.66	-450.82	-782.75	-75.87		
		9.016e+04	9.160e+04	0.61	0.0		-228.50	450.82	782.75	75.87		

Trave	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm	cm	daN	cm	daN	daN	daN	daN cm	daN cm	daN cm
1	1	0.0	0.0	0.10	-49.44	0.0	5.29	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.08	0.0	110.0	5.29	-49.44	-21.29	0.0	-2342.07	-2719.21
1	3	0.0	2342.07	0.10	-49.44	0.0	5.29	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.05	0.0	110.0	5.29	-49.44	21.29	0.0	2342.07	-2719.21
1	17	0.0	0.0	0.25	-49.44	0.0	17.65	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.07	0.0	110.0	17.65	-49.44	-6.39	0.0	-702.62	-2719.21
1	18	0.0	0.0	-0.17	-49.44	0.0	-17.65	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.03	0.0	110.0	-17.65	-49.44	-6.39	0.0	-702.62	-2719.21
1	25	0.0	0.0	0.25	-49.44	0.0	10.85	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	10.85	-49.44	-6.39	0.0	-702.62	-2719.21
1	34	0.0	0.0	0.02	-49.44	0.0	-2.05	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	-2.05	-49.44	-7.34	0.0	-807.20	-2719.21
1	35	0.0	807.20	0.06	-49.44	0.0	2.05	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	2.05	-49.44	7.34	0.0	807.20	-2719.21
1	49	0.0	0.0	0.12	-49.44	0.0	6.85	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.03	0.0	110.0	6.85	-49.44	-2.20	0.0	-242.16	-2719.21
1	50	0.0	0.0	-0.04	-49.44	0.0	-6.85	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-0.01	0.0	110.0	-6.85	-49.44	-2.20	0.0	-242.16	-2719.21
1	56	0.0	130.52	-0.04	-49.44	0.0	-6.85	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-6.85	-49.44	1.19	0.0	130.52	-2719.21
2	9	0.0	0.0	0.03	-49.44	0.0	-4.43	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-4.43	0.0	21.29	0.0	0.0	0.0
2	11	0.0	2342.07	0.03	-49.44	0.0	-4.43	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-4.43	0.0	-21.29	0.0	0.0	0.0
2	17	0.0	0.0	0.17	-49.44	0.0	-14.77	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-6.86e-03	0.0	110.0	-14.77	0.0	3.44	0.0	0.0	0.0
2	18	0.0	0.0	-0.25	-49.44	0.0	14.77	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	14.77	0.0	3.44	0.0	0.0	0.0
2	26	0.0	0.0	-0.25	-49.44	0.0	13.73	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-6.78e-03	0.0	110.0	13.73	0.0	3.44	0.0	0.0	0.0
2	33	0.0	0.0	-0.01	-49.44	0.0	-1.72	49.44	3.96	0.0	-435.07	-2719.21
		-2719.21	-435.07	-0.01	0.0	110.0	-1.72	0.0	3.96	0.0	0.0	0.0
2	41	0.0	0.0	-0.01	-49.44	0.0	-1.72	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.72	0.0	7.34	0.0	0.0	0.0
2	43	0.0	807.20	-0.01	-49.44	0.0	-1.72	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.72	0.0	-7.34	0.0	0.0	0.0
2	49	0.0	0.0	0.04	-49.44	0.0	-5.73	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-2.22e-03	0.0	110.0	-5.73	0.0	1.19	0.0	0.0	0.0
2	50	0.0	0.0	-0.12	-49.44	0.0	5.73	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-4.77e-03	0.0	110.0	5.73	0.0	1.19	0.0	0.0	0.0
3	1	1171.11	-1398.47	-0.03	-40.86	0.0	-242.36	168.10	-3.91	0.0	-1398.47	-1.803e+04
		-1.803e+04	-1907.30	8.02e-03	0.0	130.0	-242.36	127.23	-3.91	0.0	-1907.30	1171.11
3	3	2.649e+04	-319.17	-0.05	-40.86	0.0	242.36	9.78	-20.53	0.0	-319.17	2.634e+04
		2.496e+04	-2987.69	8.01e-03	0.0	130.0	242.36	-31.08	-20.53	0.0	-2987.69	2.496e+04
3	18	9495.79	8320.37	-0.04	-40.86	0.0	-72.71	112.68	43.23	0.0	2700.84	-2497.21
		-2497.21	2700.84	-0.03	0.0	130.0	-72.71	71.82	43.23	0.0	8320.37	9495.79
3	19	1.663e+04	-2700.84	-0.04	-40.86	0.0	72.71	65.19	-43.23	0.0	-2700.84	1.081e+04
		1.081e+04	-8320.37	0.03	0.0	130.0	72.71	24.33	-43.23	0.0	-8320.37	1.663e+04
3	33	8964.75	-519.32	-0.03	-40.86	0.0	-83.53	116.22	-1.88	0.0	-519.32	-3487.77
		-3487.77	-763.76	3.11e-03	0.0	130.0	-83.53	75.36	-1.88	0.0	-763.76	8964.75
3	35	1.716e+04	-147.34	-0.04	-40.86	0.0	83.53	61.65	-7.61	0.0	-147.34	1.180e+04
		1.180e+04	-1136.12	3.11e-03	0.0	130.0	83.53	20.79	-7.61	0.0	-1136.12	1.716e+04
3	50	1.183e+04	3222.32	-0.04	-40.86	0.0	-25.06	97.12	16.67	0.0	1055.31	1864.06
		1864.06	1055.31	-0.01	0.0	130.0	-25.06	56.26	16.67	0.0	3222.32	1.183e+04
3	51	1.429e+04	-1055.31	-0.04	-40.86	0.0	25.06	80.75	-16.67	0.0	-1055.31	6451.34
		6451.34	-3222.32	0.01	0.0	130.0	25.06	39.89	-16.67	0.0	-3222.32	1.429e+04
4	1	0.0	0.0	0.10	-49.44	0.0	4.51	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.06	0.0	110.0	4.51	-49.44	-21.29	0.0	-2342.07	-2719.21
4	3	0.0	2342.07	0.10	-49.44	0.0	4.51	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.07	0.0	110.0	4.51	-49.44	21.29	0.0	2342.07	-2719.21
4	17	0.0	0.0	0.25	-49.44	0.0	15.03	0.0	-6.39	0.0	0.0	0.0

4	18	-2719.21	-702.62	-9.92e-03	0.0	110.0	15.03	-49.44	-6.39	0.0	-702.62	-2719.21
		0.0	0.0	-0.17	-49.44	0.0	-15.03	0.0	-6.39	0.0	0.0	0.0
4	25	-2719.21	-702.62	0.05	0.0	110.0	-15.03	-49.44	-6.39	0.0	-702.62	-2719.21
		0.0	0.0	0.25	-49.44	0.0	13.46	0.0	-6.39	0.0	0.0	0.0
4	33	-2719.21	-702.62	-0.02	0.0	110.0	13.46	-49.44	-6.39	0.0	-702.62	-2719.21
		0.0	0.0	0.06	-49.44	0.0	1.75	0.0	-7.34	0.0	0.0	0.0
4	36	-2719.21	-807.20	0.02	0.0	110.0	1.75	-49.44	-7.34	0.0	-807.20	-2719.21
		0.0	807.20	0.02	-49.44	0.0	-1.75	0.0	7.34	0.0	0.0	0.0
4	49	-2719.21	0.0	-0.02	0.0	110.0	-1.75	-49.44	7.34	0.0	807.20	-2719.21
		0.0	0.0	0.12	-49.44	0.0	5.83	0.0	-2.20	0.0	0.0	0.0
4	50	-2719.21	-242.16	-4.69e-03	0.0	110.0	5.83	-49.44	-2.20	0.0	-242.16	-2719.21
		0.0	0.0	-0.04	-49.44	0.0	-5.83	0.0	-2.20	0.0	0.0	0.0
4	56	-2719.21	-242.16	0.02	0.0	110.0	-5.83	-49.44	-2.20	0.0	-242.16	-2719.21
		0.0	130.52	-0.04	-49.44	0.0	-5.83	0.0	1.19	0.0	0.0	0.0
7	9	-2719.21	0.0	7.84e-03	0.0	110.0	-5.83	-49.44	1.19	0.0	130.52	-2719.21
		0.0	0.0	0.03	-49.44	0.0	-4.51	49.44	21.29	0.0	-2342.07	-2719.21
7	11	-2719.21	-2342.07	-0.07	0.0	110.0	-4.51	0.0	21.29	0.0	0.0	0.0
		0.0	2342.07	0.03	-49.44	0.0	-4.51	49.44	-21.29	0.0	2342.07	-2719.21
7	17	-2719.21	0.0	0.06	0.0	110.0	-4.51	0.0	-21.29	0.0	0.0	0.0
		0.0	0.0	0.17	-49.44	0.0	-15.03	49.44	3.44	0.0	-378.70	-2719.21
7	18	-2719.21	-378.70	-0.04	0.0	110.0	-15.03	0.0	3.44	0.0	0.0	0.0
		0.0	0.0	-0.25	-49.44	0.0	15.03	49.44	3.44	0.0	-378.70	-2719.21
7	26	-2719.21	-378.70	0.02	0.0	110.0	15.03	0.0	3.44	0.0	0.0	0.0
		0.0	0.0	-0.25	-49.44	0.0	13.46	49.44	3.44	0.0	-378.70	-2719.21
7	41	-2719.21	-378.70	0.02	0.0	110.0	13.46	0.0	3.44	0.0	0.0	0.0
		0.0	0.0	-0.01	-49.44	0.0	-1.75	49.44	7.34	0.0	-807.20	-2719.21
7	43	-2719.21	-807.20	-0.03	0.0	110.0	-1.75	0.0	7.34	0.0	0.0	0.0
		0.0	807.20	-0.01	-49.44	0.0	-1.75	49.44	-7.34	0.0	807.20	-2719.21
7	49	-2719.21	0.0	0.02	0.0	110.0	-1.75	0.0	-7.34	0.0	0.0	0.0
		0.0	0.0	0.04	-49.44	0.0	-5.83	49.44	1.19	0.0	-130.52	-2719.21
7	50	-2719.21	-130.52	-0.01	0.0	110.0	-5.83	0.0	1.19	0.0	0.0	0.0
		0.0	0.0	-0.12	-49.44	0.0	5.83	49.44	1.19	0.0	-130.52	-2719.21
8	1	-2719.21	-130.52	7.84e-03	0.0	110.0	5.83	0.0	1.19	0.0	0.0	0.0
		2449.92	-239.18	-0.04	-40.86	0.0	-149.74	28.35	21.14	0.0	-2987.04	1171.11
8	3	2.496e+04	-1319.78	0.12	-40.86	0.0	149.74	-129.96	4.52	0.0	-1907.95	2.496e+04
		1171.11	-2987.04	-5.58e-03	0.0	130.0	-149.74	-12.51	21.14	0.0	-239.18	2201.21
8	17	9495.79	-2436.17	0.01	-40.86	0.0	-44.92	-27.06	45.26	0.0	-8320.17	9495.79
		3322.44	-8320.17	-0.02	0.0	130.0	-44.92	-67.92	45.26	0.0	-2436.17	3322.44
8	20	1.663e+04	8320.17	0.06	-40.86	0.0	44.92	-74.55	-45.26	0.0	8320.17	1.663e+04
		4283.50	2436.17	0.02	0.0	130.0	44.92	-115.41	-45.26	0.0	2436.17	4283.50
8	33	8964.75	-116.32	0.01	-40.86	0.0	-51.61	-23.52	7.84	0.0	-1135.90	8964.75
		3250.92	-1135.90	-2.17e-03	0.0	130.0	-51.61	-64.38	7.84	0.0	-116.32	3250.92
8	35	1.716e+04	-488.75	0.07	-40.86	0.0	51.61	-78.09	2.12	0.0	-763.98	1.716e+04
		4355.02	-763.98	-2.17e-03	0.0	130.0	51.61	-118.95	2.12	0.0	-488.75	4355.02
8	49	1.183e+04	-952.59	0.03	-40.86	0.0	-15.48	-42.62	17.46	0.0	-3222.25	1.183e+04
		3637.35	-3222.25	-7.23e-03	0.0	130.0	-15.48	-83.48	17.46	0.0	-952.59	3637.35
8	52	1.429e+04	3222.25	0.05	-40.86	0.0	15.48	-58.99	-17.46	0.0	3222.25	1.429e+04
		3968.58	952.59	7.23e-03	0.0	130.0	15.48	-99.85	-17.46	0.0	952.59	3968.58
9	1	-2719.21	0.0	0.10	-49.44	0.0	4.59	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	4.59	-49.44	-21.29	0.0	-2342.07	-2719.21
9	3	-2719.21	0.0	0.10	-49.44	0.0	4.59	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	4.59	-49.44	21.29	0.0	2342.07	-2719.21
9	17	-2719.21	0.0	0.25	-49.44	0.0	15.29	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	15.29	-49.44	-6.39	0.0	-702.62	-2719.21
9	18	-2719.21	0.0	-0.17	-49.44	0.0	-15.29	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	-15.29	-49.44	-6.39	0.0	-702.62	-2719.21
9	20	-2719.21	702.62	-0.17	-49.44	0.0	-15.29	0.0	6.39	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-15.29	-49.44	6.39	0.0	702.62	-2719.21
9	25	-2719.21	0.0	0.25	-49.44	0.0	13.20	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	13.20	-49.44	-6.39	0.0	-702.62	-2719.21
9	33	-2719.21	0.0	0.06	-49.44	0.0	1.78	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.78	-49.44	-7.34	0.0	-807.20	-2719.21
9	35	-2719.21	807.20	0.06	-49.44	0.0	1.78	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.78	-49.44	7.34	0.0	807.20	-2719.21
9	43	-2719.21	435.07	0.06	-49.44	0.0	1.78	0.0	3.96	0.0	0.0	0.0
		-2719.21	0.0	-0.01	0.0	110.0	1.78	-49.44	3.96	0.0	435.07	-2719.21
9	49	-2719.21	0.0	0.12	-49.44	0.0	5.94	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	8.69e-03	0.0	110.0	5.94	-49.44	-2.20	0.0	-242.16	-2719.21
9	50	-2719.21	0.0	-0.04	-49.44	0.0	-5.94	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	4.71e-03	0.0	110.0	-5.94	-49.44	-2.20	0.0	-242.16	-2719.21
10	9	-2719.21	0.0	0.03	-49.44	0.0	-5.29	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.05	0.0	110.0	-5.29	0.0	21.29	0.0	0.0	0.0
10	11	-2719.21	0.0	0.03	-49.44	0.0	-5.29	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.08	0.0	110.0	-5.29	0.0	-21.29	0.0	0.0	0.0
10	17	-2719.21	0.0	0.17	-49.44	0.0	-17.65	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.04	0.0	110.0	-17.65	0.0	3.44	0.0	0.0	0.0

10	18	0.0	0.0	-0.25	-49.44	0.0	17.65	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.06	0.0	110.0	17.65	0.0	3.44	0.0	0.0	0.0
10	26	0.0	0.0	-0.25	-49.44	0.0	10.85	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	10.85	0.0	3.44	0.0	0.0	0.0
10	41	0.0	0.0	-0.01	-49.44	0.0	-2.05	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-2.05	0.0	7.34	0.0	0.0	0.0
10	44	0.0	807.20	-0.06	-49.44	0.0	2.05	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	2.05	0.0	-7.34	0.0	0.0	0.0
10	49	0.0	0.0	0.04	-49.44	0.0	-6.85	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.02	0.0	110.0	-6.85	0.0	1.19	0.0	0.0	0.0
10	50	0.0	0.0	-0.12	-49.44	0.0	6.85	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	6.85	0.0	1.19	0.0	0.0	0.0
11	1	5678.56	4633.44	-0.12	-40.86	0.0	-52.37	285.35	-46.80	0.0	4633.44	-2.876e+04
		-2.876e+04	-1450.76	0.02	0.0	130.0	-52.37	244.49	-46.80	0.0	-1450.76	5678.56
11	3	4813.86	5585.06	-0.11	-40.86	0.0	52.37	287.57	-63.44	0.0	5585.06	-2.991e+04
		-2.991e+04	-2661.69	0.02	0.0	130.0	52.37	246.71	-63.44	0.0	-2661.69	4813.86
11	18	5375.91	7035.72	-0.11	-40.86	0.0	-15.71	286.13	186.23	0.0	-1.717e+04	-2.916e+04
		-2.916e+04	-1.717e+04	-0.06	0.0	130.0	-15.71	245.27	186.23	0.0	7035.72	5375.91
11	19	5116.50	1.717e+04	-0.11	-40.86	0.0	15.71	286.79	-186.23	0.0	1.717e+04	-2.951e+04
		-2.951e+04	-7035.72	0.06	0.0	130.0	15.71	245.93	-186.23	0.0	-7035.72	5116.50
11	33	5395.22	1819.05	-0.11	-40.86	0.0	-18.05	286.08	-18.53	0.0	1819.05	-2.914e+04
		-2.914e+04	-589.40	6.91e-03	0.0	130.0	-18.05	245.22	-18.53	0.0	-589.40	5395.22
11	35	5097.20	2147.03	-0.11	-40.86	0.0	18.05	286.84	-24.26	0.0	2147.03	-2.954e+04
		-2.954e+04	-1006.75	6.33e-03	0.0	130.0	18.05	245.98	-24.26	0.0	-1006.75	5097.20
11	50	5290.91	2722.86	-0.11	-40.86	0.0	-5.41	286.35	72.17	0.0	-6659.33	-2.928e+04
		-2.928e+04	-6659.33	-0.02	0.0	130.0	-5.41	245.49	72.17	0.0	2722.86	5290.91
11	51	5201.51	6659.33	-0.11	-40.86	0.0	5.41	286.58	-72.17	0.0	6659.33	-2.940e+04
		-2.940e+04	-2722.86	0.02	0.0	130.0	5.41	245.71	-72.17	0.0	-2722.86	5201.51
12	9	0.0	0.0	0.03	-49.44	0.0	-4.59	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-4.59	0.0	21.29	0.0	0.0	0.0
12	11	0.0	2342.07	0.03	-49.44	0.0	-4.59	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-4.59	0.0	-21.29	0.0	0.0	0.0
12	17	0.0	0.0	0.17	-49.44	0.0	-15.29	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-4.88e-03	0.0	110.0	-15.29	0.0	3.44	0.0	0.0	0.0
12	18	0.0	0.0	-0.25	-49.44	0.0	15.29	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.02	0.0	110.0	15.29	0.0	3.44	0.0	0.0	0.0
12	26	0.0	0.0	-0.25	-49.44	0.0	13.20	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-4.30e-03	0.0	110.0	13.20	0.0	3.44	0.0	0.0	0.0
12	41	0.0	0.0	-0.01	-49.44	0.0	-1.78	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.78	0.0	7.34	0.0	0.0	0.0
12	43	0.0	807.20	-0.01	-49.44	0.0	-1.78	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.78	0.0	-7.34	0.0	0.0	0.0
12	49	0.0	0.0	0.04	-49.44	0.0	-5.94	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-1.45e-03	0.0	110.0	-5.94	0.0	1.19	0.0	0.0	0.0
12	50	0.0	0.0	-0.12	-49.44	0.0	5.94	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-5.54e-03	0.0	110.0	5.94	0.0	1.19	0.0	0.0	0.0
13	1	2201.21	4743.28	-0.04	-40.86	0.0	-57.13	-111.39	46.63	0.0	-1318.92	2201.21
		-1.494e+04	-1318.92	-7.29e-03	0.0	130.0	-57.13	-152.25	46.63	0.0	4743.28	-1.494e+04
13	3	5404.72	3662.48	0.14	-40.86	0.0	57.13	-269.70	30.02	0.0	-240.03	5404.72
		-3.231e+04	-240.03	-7.24e-03	0.0	130.0	57.13	-310.57	30.02	0.0	3662.48	-3.231e+04
13	4	5404.72	1318.92	0.14	-40.86	0.0	57.13	-269.70	-46.63	0.0	1318.92	5404.72
		-3.231e+04	-4743.28	7.29e-03	0.0	130.0	57.13	-310.57	-46.63	0.0	-4743.28	-3.231e+04
13	17	3322.44	1.417e+04	0.02	-40.86	0.0	-17.14	-166.80	130.24	0.0	-2760.09	3322.44
		-2.102e+04	-2760.09	-0.02	0.0	130.0	-17.14	-207.66	130.24	0.0	1.417e+04	-2.102e+04
13	20	4283.50	2760.09	0.07	-40.86	0.0	17.14	-214.29	-130.24	0.0	2760.09	4283.50
		-2.623e+04	-1.417e+04	0.02	0.0	130.0	17.14	-255.15	-130.24	0.0	-1.417e+04	-2.623e+04
13	33	3250.92	1817.50	0.02	-40.86	0.0	-19.69	-163.26	17.74	0.0	-488.46	3250.92
		-2.063e+04	-488.46	-2.83e-03	0.0	130.0	-19.69	-204.12	17.74	0.0	1817.50	-2.063e+04
13	35	4355.02	1445.00	0.08	-40.86	0.0	19.69	-217.83	12.01	0.0	-116.62	4355.02
		-2.662e+04	-116.62	-2.81e-03	0.0	130.0	19.69	-258.69	12.01	0.0	1445.00	-2.662e+04
13	49	3637.35	5493.38	0.04	-40.86	0.0	-5.91	-182.36	50.44	0.0	-1064.23	3637.35
		-2.273e+04	-1064.23	-9.41e-03	0.0	130.0	-5.91	-223.22	50.44	0.0	5493.38	-2.273e+04
13	52	3968.58	1064.23	0.06	-40.86	0.0	5.91	-198.73	-50.44	0.0	1064.23	3968.58
		-2.452e+04	-5493.38	9.41e-03	0.0	130.0	5.91	-239.59	-50.44	0.0	-5493.38	-2.452e+04
14	1	0.0	0.0	0.10	-49.44	0.0	4.67	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.08	0.0	110.0	4.67	-49.44	-21.29	0.0	-2342.07	-2719.21
14	3	0.0	2342.07	0.10	-49.44	0.0	4.67	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.05	0.0	110.0	4.67	-49.44	21.29	0.0	2342.07	-2719.21
14	17	0.0	0.0	0.25	-49.44	0.0	15.56	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.06	0.0	110.0	15.56	-49.44	-6.39	0.0	-702.62	-2719.21
14	18	0.0	0.0	-0.17	-49.44	0.0	-15.56	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.02	0.0	110.0	-15.56	-49.44	-6.39	0.0	-702.62	-2719.21
14	25	0.0	0.0	0.25	-49.44	0.0	12.94	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	12.94	-49.44	-6.39	0.0	-702.62	-2719.21
14	33	0.0	0.0	0.06	-49.44	0.0	1.81	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.03	0.0	110.0	1.81	-49.44	-7.34	0.0	-807.20	-2719.21
14	35	0.0	807.20	0.06	-49.44	0.0	1.81	0.0	7.34	0.0	0.0	0.0

14	49	-2719.21	0.0	-0.02	0.0	110.0	1.81	-49.44	7.34	0.0	807.20	-2719.21
		0.0	0.0	0.12	-49.44	0.0	6.04	0.0	-2.20	0.0	0.0	0.0
14	50	-2719.21	-242.16	0.02	0.0	110.0	6.04	-49.44	-2.20	0.0	-242.16	-2719.21
		0.0	0.0	-0.04	-49.44	0.0	-6.04	0.0	-2.20	0.0	0.0	0.0
14	56	-2719.21	-242.16	-8.25e-03	0.0	110.0	-6.04	-49.44	-2.20	0.0	-242.16	-2719.21
		0.0	130.52	-0.04	-49.44	0.0	-6.04	0.0	1.19	0.0	0.0	0.0
15	1	-2719.21	0.0	-0.02	0.0	110.0	-6.04	-49.44	1.19	0.0	130.52	-2719.21
		0.0	0.0	0.10	-49.44	0.0	5.37	0.0	-21.29	0.0	0.0	0.0
15	3	-2719.21	-2342.07	0.06	0.0	110.0	5.37	-49.44	-21.29	0.0	-2342.07	-2719.21
		0.0	2342.07	0.10	-49.44	0.0	5.37	0.0	21.29	0.0	0.0	0.0
15	17	-2719.21	0.0	-0.07	0.0	110.0	5.37	-49.44	21.29	0.0	2342.07	-2719.21
		0.0	0.0	0.25	-49.44	0.0	17.91	0.0	-6.39	0.0	0.0	0.0
15	18	-2719.21	-702.62	-3.27e-03	0.0	110.0	17.91	-49.44	-6.39	0.0	-702.62	-2719.21
		0.0	0.0	-0.17	-49.44	0.0	-17.91	0.0	-6.39	0.0	0.0	0.0
15	25	-2719.21	-702.62	0.04	0.0	110.0	-17.91	-49.44	-6.39	0.0	-702.62	-2719.21
		0.0	0.0	0.25	-49.44	0.0	10.59	0.0	-6.39	0.0	0.0	0.0
15	33	-2719.21	-702.62	5.18e-03	0.0	110.0	10.59	-49.44	-6.39	0.0	-702.62	-2719.21
		0.0	0.0	0.06	-49.44	0.0	2.09	0.0	-7.34	0.0	0.0	0.0
15	35	-2719.21	-807.20	0.02	0.0	110.0	2.09	-49.44	-7.34	0.0	-807.20	-2719.21
		0.0	807.20	0.06	-49.44	0.0	2.09	0.0	7.34	0.0	0.0	0.0
15	49	-2719.21	0.0	-0.03	0.0	110.0	2.09	-49.44	7.34	0.0	807.20	-2719.21
		0.0	0.0	0.12	-49.44	0.0	6.95	0.0	-2.20	0.0	0.0	0.0
15	50	-2719.21	-242.16	-2.12e-03	0.0	110.0	6.95	-49.44	-2.20	0.0	-242.16	-2719.21
		0.0	0.0	-0.04	-49.44	0.0	-6.95	0.0	-2.20	0.0	0.0	0.0
15	56	-2719.21	-242.16	0.02	0.0	110.0	-6.95	-49.44	-2.20	0.0	-242.16	-2719.21
		0.0	130.52	-0.04	-49.44	0.0	-6.95	0.0	1.19	0.0	0.0	0.0
17	9	-2719.21	0.0	5.55e-03	0.0	110.0	-6.95	-49.44	1.19	0.0	130.52	-2719.21
		0.0	0.0	0.03	-49.44	0.0	-4.67	49.44	21.29	0.0	-2342.07	-2719.21
17	11	-2719.21	-2342.07	-0.05	0.0	110.0	-4.67	0.0	21.29	0.0	0.0	0.0
		0.0	2342.07	0.03	-49.44	0.0	-4.67	49.44	-21.29	0.0	2342.07	-2719.21
17	17	-2719.21	0.0	0.08	0.0	110.0	-4.67	0.0	-21.29	0.0	0.0	0.0
		0.0	0.0	0.17	-49.44	0.0	-15.56	49.44	3.44	0.0	-378.70	-2719.21
17	18	-2719.21	-378.70	0.03	0.0	110.0	-15.56	0.0	3.44	0.0	0.0	0.0
		0.0	0.0	-0.25	-49.44	0.0	15.56	49.44	3.44	0.0	-378.70	-2719.21
17	26	-2719.21	-378.70	-0.05	0.0	110.0	15.56	0.0	3.44	0.0	0.0	0.0
		0.0	0.0	-0.25	-49.44	0.0	12.94	49.44	3.44	0.0	-378.70	-2719.21
17	41	-2719.21	-378.70	-0.03	0.0	110.0	12.94	0.0	3.44	0.0	0.0	0.0
		0.0	0.0	-0.01	-49.44	0.0	-1.81	49.44	7.34	0.0	-807.20	-2719.21
17	44	-2719.21	-807.20	-0.02	0.0	110.0	-1.81	0.0	7.34	0.0	0.0	0.0
		0.0	807.20	-0.06	-49.44	0.0	1.81	49.44	-7.34	0.0	807.20	-2719.21
17	49	-2719.21	0.0	0.02	0.0	110.0	1.81	0.0	-7.34	0.0	0.0	0.0
		0.0	0.0	0.04	-49.44	0.0	-6.04	49.44	1.19	0.0	-130.52	-2719.21
17	50	-2719.21	-130.52	0.01	0.0	110.0	-6.04	0.0	1.19	0.0	0.0	0.0
		0.0	0.0	-0.12	-49.44	0.0	6.04	49.44	1.19	0.0	-130.52	-2719.21
18	1	-2719.21	-130.52	-0.02	0.0	110.0	6.04	0.0	1.19	0.0	0.0	0.0
		1.010e+04	3664.49	-0.10	-40.86	0.0	-240.56	212.99	-31.08	0.0	3664.49-1.494e+04	
		-1.494e+04	-376.16	0.01	0.0	130.0	-240.56	172.13	-31.08	0.0	-376.16 1.010e+04	
18	3	-1779.59	4742.68	0.01	-40.86	0.0	240.56	255.30	-47.65	0.0	4742.68-3.231e+04	
		-3.231e+04	-1451.41	0.01	0.0	130.0	240.56	214.44	-47.65	0.0	-1451.41 -1779.59	
18	18	5940.95	3207.24	-0.07	-40.86	0.0	-72.17	227.80	133.70	0.0	-1.417e+04-2.102e+04	
		-2.102e+04	-1.417e+04	-0.04	0.0	130.0	-72.17	186.94	133.70	0.0	3207.24 5940.95	
18	19	2377.62	1.417e+04	-0.04	-40.86	0.0	72.17	240.49	-133.70	0.0	1.417e+04-2.623e+04	
		-2.623e+04	-3207.24	0.04	0.0	130.0	72.17	199.63	-133.70	0.0	-3207.24 2377.62	
18	33	6206.14	1445.73	-0.07	-40.86	0.0	-82.91	226.86	-12.42	0.0	1445.73-2.063e+04	
		-2.063e+04	-169.37	4.19e-03	0.0	130.0	-82.91	186.00	-12.42	0.0	-169.37 6206.14	
18	35	2112.43	1817.33	-0.04	-40.86	0.0	82.91	241.44	-18.13	0.0	1817.33-2.662e+04	
		-2.662e+04	-539.96	4.18e-03	0.0	130.0	82.91	200.58	-18.13	0.0	-539.96 2112.43	
18	50	4773.34	1237.81	-0.06	-40.86	0.0	-24.87	231.96	51.78	0.0	-5494.16-2.273e+04	
		-2.273e+04	-5494.16	-0.01	0.0	130.0	-24.87	191.10	51.78	0.0	1237.81 4773.34	
18	51	3545.23	5494.16	-0.05	-40.86	0.0	24.87	236.33	-51.78	0.0	5494.16-2.452e+04	
		-2.452e+04	-1237.81	0.01	0.0	130.0	24.87	195.47	-51.78	0.0	-1237.81 3545.23	
19	6	0.0	0.0	-0.04	-27.99	0.0	-3.13	0.0	-12.05	0.0	0.0	0.0
		-1539.46	-1325.95	-0.01	0.0	110.0	-3.13	-27.99	-12.05	0.0	-1325.95 -1539.46	
19	7	0.0	1325.95	0.09	-27.99	0.0	3.13	0.0	12.05	0.0	0.0	0.0
		-1539.46	0.0	0.01	0.0	110.0	3.13	-27.99	12.05	0.0	1325.95 -1539.46	
19	17	0.0	0.0	0.23	-27.99	0.0	5.70	0.0	-3.62	0.0	0.0	0.0
		-1539.46	-397.78	0.11	0.0	110.0	5.70	-27.99	-3.62	0.0	-397.78 -1539.46	
19	25	0.0	0.0	0.23	-27.99	0.0	10.44	0.0	-3.62	0.0	0.0	0.0
		-1539.46	-397.78	0.18	0.0	110.0	10.44	-27.99	-3.62	0.0	-397.78 -1539.46	
19	26	0.0	0.0	-0.19	-27.99	0.0	-10.44	0.0	-3.62	0.0	0.0	0.0
		-1539.46	-397.78	-0.16	0.0	110.0	-10.44	-27.99	-3.62	0.0	-397.78 -1539.46	
19	28	0.0	397.78	-0.19	-27.99	0.0	-10.44	0.0	3.62	0.0	0.0	0.0
		-1539.46	0.0	-0.18	0.0	110.0	-10.44	-27.99	3.62	0.0	397.78 -1539.46	
19	38	0.0	0.0	-3.19e-03	-27.99	0.0	-1.22	0.0	-4.15	0.0	0.0	0.0
		-1539.46	-456.99	-6.45e-03	0.0	110.0	-1.22	-27.99	-4.15	0.0	-456.99 -1539.46	
19	39	0.0	456.99	0.05	-27.99	0.0	1.22	0.0	4.15	0.0	0.0	0.0
		-1539.46	0.0	6.45e-03	0.0	110.0	1.22	-27.99	4.15	0.0	456.99 -1539.46	

19	49	0.0	0.0	0.10	-27.99	0.0	2.21	0.0	-1.25	0.0	0.0	0.0
		-1539.46	-137.10	0.04	0.0	110.0	2.21	-27.99	-1.25	0.0	-137.10	-1539.46
19	56	0.0	73.89	-0.06	-27.99	0.0	-2.21	0.0	0.67	0.0	0.0	0.0
		-1539.46	0.0	-0.04	0.0	110.0	-2.21	-27.99	0.67	0.0	73.89	-1539.46
19	57	0.0	0.0	0.10	-27.99	0.0	4.05	0.0	-1.25	0.0	0.0	0.0
		-1539.46	-137.10	0.07	0.0	110.0	4.05	-27.99	-1.25	0.0	-137.10	-1539.46
19	58	0.0	0.0	-0.06	-27.99	0.0	-4.05	0.0	-1.25	0.0	0.0	0.0
		-1539.46	-137.10	-0.06	0.0	110.0	-4.05	-27.99	-1.25	0.0	-137.10	-1539.46
20	2	0.0	0.0	-0.03	-49.44	0.0	-3.10	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.04	0.0	110.0	-3.10	-49.44	-21.29	0.0	-2342.07	-2719.21
20	3	0.0	2342.07	0.10	-49.44	0.0	3.10	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.04	0.0	110.0	3.10	-49.44	21.29	0.0	2342.07	-2719.21
20	17	0.0	0.0	0.25	-49.44	0.0	10.33	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.09	0.0	110.0	10.33	-49.44	-6.39	0.0	-702.62	-2719.21
20	25	0.0	0.0	0.25	-49.44	0.0	18.17	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.14	0.0	110.0	18.17	-49.44	-6.39	0.0	-702.62	-2719.21
20	26	0.0	0.0	-0.17	-49.44	0.0	-18.17	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.10	0.0	110.0	-18.17	-49.44	-6.39	0.0	-702.62	-2719.21
20	38	0.0	0.0	0.02	-49.44	0.0	-2.12	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	9.88e-03	0.0	110.0	-2.12	-49.44	-7.34	0.0	-807.20	-2719.21
20	39	0.0	807.20	0.06	-49.44	0.0	2.12	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-9.88e-03	0.0	110.0	2.12	-49.44	7.34	0.0	807.20	-2719.21
20	49	0.0	0.0	0.12	-49.44	0.0	4.01	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.04	0.0	110.0	4.01	-49.44	-2.20	0.0	-242.16	-2719.21
20	55	0.0	130.52	0.12	-49.44	0.0	4.01	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	0.03	0.0	110.0	4.01	-49.44	1.19	0.0	130.52	-2719.21
20	57	0.0	0.0	0.12	-49.44	0.0	7.05	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.05	0.0	110.0	7.05	-49.44	-2.20	0.0	-242.16	-2719.21
20	58	0.0	0.0	-0.04	-49.44	0.0	-7.05	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-0.04	0.0	110.0	-7.05	-49.44	-2.20	0.0	-242.16	-2719.21
21	1	0.0	0.0	0.10	-49.44	0.0	4.75	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	4.75	-49.44	-21.29	0.0	-2342.07	-2719.21
21	3	0.0	2342.07	0.10	-49.44	0.0	4.75	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	4.75	-49.44	21.29	0.0	2342.07	-2719.21
21	17	0.0	0.0	0.25	-49.44	0.0	15.82	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	15.82	-49.44	-6.39	0.0	-702.62	-2719.21
21	18	0.0	0.0	-0.17	-49.44	0.0	-15.82	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	-15.82	-49.44	-6.39	0.0	-702.62	-2719.21
21	26	0.0	0.0	-0.17	-49.44	0.0	-12.68	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	-12.68	-49.44	-6.39	0.0	-702.62	-2719.21
21	33	0.0	0.0	0.06	-49.44	0.0	1.84	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.84	-49.44	-7.34	0.0	-807.20	-2719.21
21	35	0.0	807.20	0.06	-49.44	0.0	1.84	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.84	-49.44	7.34	0.0	807.20	-2719.21
21	49	0.0	0.0	0.12	-49.44	0.0	6.14	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	7.81e-03	0.0	110.0	6.14	-49.44	-2.20	0.0	-242.16	-2719.21
21	50	0.0	0.0	-0.04	-49.44	0.0	-6.14	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	5.52e-03	0.0	110.0	-6.14	-49.44	-2.20	0.0	-242.16	-2719.21
21	56	0.0	130.52	-0.04	-49.44	0.0	-6.14	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-4.66e-03	0.0	110.0	-6.14	-49.44	1.19	0.0	130.52	-2719.21
23	13	0.0	0.0	0.04	-27.99	0.0	-3.13	27.99	12.05	0.0	-1325.95	-1539.46
		-1539.46	-1325.95	0.01	0.0	110.0	-3.13	0.0	12.05	0.0	0.0	0.0
23	16	0.0	1325.95	-0.09	-27.99	0.0	3.13	27.99	-12.05	0.0	1325.95	-1539.46
		-1539.46	0.0	-0.01	0.0	110.0	3.13	0.0	-12.05	0.0	0.0	0.0
23	18	0.0	0.0	-0.23	-27.99	0.0	5.70	27.99	1.95	0.0	-214.40	-1539.46
		-1539.46	-214.40	-0.11	0.0	110.0	5.70	0.0	1.95	0.0	0.0	0.0
23	25	0.0	0.0	0.19	-27.99	0.0	-10.44	27.99	1.95	0.0	-214.40	-1539.46
		-1539.46	-214.40	0.17	0.0	110.0	-10.44	0.0	1.95	0.0	0.0	0.0
23	26	0.0	0.0	-0.23	-27.99	0.0	10.44	27.99	1.95	0.0	-214.40	-1539.46
		-1539.46	-214.40	-0.18	0.0	110.0	10.44	0.0	1.95	0.0	0.0	0.0
23	45	0.0	0.0	4.76e-03	-27.99	0.0	-1.22	27.99	4.15	0.0	-456.99	-1539.46
		-1539.46	-456.99	6.45e-03	0.0	110.0	-1.22	0.0	4.15	0.0	0.0	0.0
23	48	0.0	456.99	-0.05	-27.99	0.0	1.22	27.99	-4.15	0.0	456.99	-1539.46
		-1539.46	0.0	-6.45e-03	0.0	110.0	1.22	0.0	-4.15	0.0	0.0	0.0
23	49	0.0	0.0	0.06	-27.99	0.0	-2.21	27.99	0.67	0.0	-73.89	-1539.46
		-1539.46	-73.89	0.04	0.0	110.0	-2.21	0.0	0.67	0.0	0.0	0.0
23	50	0.0	0.0	-0.10	-27.99	0.0	2.21	27.99	0.67	0.0	-73.89	-1539.46
		-1539.46	-73.89	-0.04	0.0	110.0	2.21	0.0	0.67	0.0	0.0	0.0
23	57	0.0	0.0	0.06	-27.99	0.0	-4.05	27.99	0.67	0.0	-73.89	-1539.46
		-1539.46	-73.89	0.06	0.0	110.0	-4.05	0.0	0.67	0.0	0.0	0.0
23	58	0.0	0.0	-0.10	-27.99	0.0	4.05	27.99	0.67	0.0	-73.89	-1539.46
		-1539.46	-73.89	-0.07	0.0	110.0	4.05	0.0	0.67	0.0	0.0	0.0
24	9	0.0	0.0	0.03	-49.44	0.0	-3.10	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.04	0.0	110.0	-3.10	0.0	21.29	0.0	0.0	0.0
24	12	0.0	2342.07	-0.10	-49.44	0.0	3.10	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.04	0.0	110.0	3.10	0.0	-21.29	0.0	0.0	0.0
24	18	0.0	0.0	-0.25	-49.44	0.0	10.33	49.44	3.44	0.0	-378.70	-2719.21

		-2719.21	-378.70	-0.08	0.0	110.0	10.33	0.0	3.44	0.0	0.0	0.0
24	25	0.0	0.0	0.17	-49.44	0.0	-18.17	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.11	0.0	110.0	-18.17	0.0	3.44	0.0	0.0	0.0
24	26	0.0	0.0	-0.25	-49.44	0.0	18.17	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.13	0.0	110.0	18.17	0.0	3.44	0.0	0.0	0.0
24	45	0.0	0.0	-0.01	-49.44	0.0	-2.12	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-8.37e-03	0.0	110.0	-2.12	0.0	7.34	0.0	0.0	0.0
24	48	0.0	807.20	-0.06	-49.44	0.0	2.12	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	8.37e-03	0.0	110.0	2.12	0.0	-7.34	0.0	0.0	0.0
24	50	0.0	0.0	-0.12	-49.44	0.0	4.01	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.03	0.0	110.0	4.01	0.0	1.19	0.0	0.0	0.0
24	57	0.0	0.0	0.04	-49.44	0.0	-7.05	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.04	0.0	110.0	-7.05	0.0	1.19	0.0	0.0	0.0
24	58	0.0	0.0	-0.12	-49.44	0.0	7.05	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.05	0.0	110.0	7.05	0.0	1.19	0.0	0.0	0.0
25	1	1.977e+04	-596.50	-0.16	-40.86	0.0	-225.48	172.51	-12.19	0.0	-596.50	0.0
		0.0	-2180.58	0.04	0.0	130.0	-225.48	131.65	-12.19	0.0	-2180.58	1.977e+04
25	3	2.006e+04	623.67	-0.17	-40.86	0.0	225.48	174.73	-28.82	0.0	623.67	0.0
		0.0	-3122.97	0.03	0.0	130.0	225.48	133.87	-28.82	0.0	-3122.97	2.006e+04
25	9	1.977e+04	623.67	-0.16	-40.86	0.0	-225.48	172.51	-28.82	0.0	623.67	0.0
		0.0	-3122.97	0.03	0.0	130.0	-225.48	131.65	-28.82	0.0	-3122.97	1.977e+04
25	26	1.987e+04	1.566e+04	-0.17	-40.86	0.0	-67.64	173.29	122.49	0.0	-259.26	0.0
		0.0	-259.26	-0.18	0.0	130.0	-67.64	132.43	122.49	0.0	1.566e+04	1.987e+04
25	27	1.996e+04	259.26	-0.17	-40.86	0.0	67.64	173.96	-122.49	0.0	259.26	0.0
		0.0	-1.566e+04	0.18	0.0	130.0	67.64	133.10	-122.49	0.0	-1.566e+04	1.996e+04
25	33	1.987e+04	-205.00	-0.17	-40.86	0.0	-77.71	173.24	-5.09	0.0	-205.00	0.0
		0.0	-866.83	0.01	0.0	130.0	-77.71	132.38	-5.09	0.0	-866.83	1.987e+04
25	35	1.996e+04	215.54	-0.17	-40.86	0.0	77.71	174.01	-10.82	0.0	215.54	0.0
		0.0	-1191.63	0.01	0.0	130.0	77.71	133.14	-10.82	0.0	-1191.63	1.996e+04
25	41	1.987e+04	215.54	-0.17	-40.86	0.0	-77.71	173.24	-10.82	0.0	215.54	0.0
		0.0	-1191.63	0.01	0.0	130.0	-77.71	132.38	-10.82	0.0	-1191.63	1.987e+04
25	58	1.990e+04	6073.83	-0.17	-40.86	0.0	-23.31	173.51	47.43	0.0	-92.67	0.0
		0.0	-92.67	-0.07	0.0	130.0	-23.31	132.65	47.43	0.0	6073.83	1.990e+04
25	59	1.993e+04	92.67	-0.17	-40.86	0.0	23.31	173.74	-47.43	0.0	92.67	0.0
		0.0	-6073.83	0.07	0.0	130.0	23.31	132.88	-47.43	0.0	-6073.83	1.993e+04
26	1	0.0	0.0	0.10	-49.44	0.0	3.18	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	3.18	-49.44	-21.29	0.0	-2342.07	-2719.21
26	3	0.0	2342.07	0.10	-49.44	0.0	3.18	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	3.18	-49.44	21.29	0.0	2342.07	-2719.21
26	18	0.0	0.0	-0.17	-49.44	0.0	-10.59	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	5.18e-03	0.0	110.0	-10.59	-49.44	-6.39	0.0	-702.62	-2719.21
26	25	0.0	0.0	0.25	-49.44	0.0	17.91	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	17.91	-49.44	-6.39	0.0	-702.62	-2719.21
26	26	0.0	0.0	-0.17	-49.44	0.0	-17.91	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-3.27e-03	0.0	110.0	-17.91	-49.44	-6.39	0.0	-702.62	-2719.21
26	33	0.0	0.0	0.06	-49.44	0.0	1.23	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.23	-49.44	-7.34	0.0	-807.20	-2719.21
26	35	0.0	807.20	0.06	-49.44	0.0	1.23	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.23	-49.44	7.34	0.0	807.20	-2719.21
26	49	0.0	0.0	0.12	-49.44	0.0	4.11	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.01	0.0	110.0	4.11	-49.44	-2.20	0.0	-242.16	-2719.21
26	56	0.0	130.52	-0.04	-49.44	0.0	-4.11	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-0.01	0.0	110.0	-4.11	-49.44	1.19	0.0	130.52	-2719.21
26	57	0.0	0.0	0.12	-49.44	0.0	6.95	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	6.95	-49.44	-2.20	0.0	-242.16	-2719.21
26	58	0.0	0.0	-0.04	-49.44	0.0	-6.95	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-2.12e-03	0.0	110.0	-6.95	-49.44	-2.20	0.0	-242.16	-2719.21
27	9	0.0	0.0	0.03	-49.44	0.0	-5.37	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.07	0.0	110.0	-5.37	0.0	21.29	0.0	0.0	0.0
27	11	0.0	2342.07	0.03	-49.44	0.0	-5.37	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.06	0.0	110.0	-5.37	0.0	-21.29	0.0	0.0	0.0
27	17	0.0	0.0	0.17	-49.44	0.0	-17.91	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	-17.91	0.0	3.44	0.0	0.0	0.0
27	18	0.0	0.0	-0.25	-49.44	0.0	17.91	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.01	0.0	110.0	17.91	0.0	3.44	0.0	0.0	0.0
27	26	0.0	0.0	-0.25	-49.44	0.0	10.59	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	7.47e-03	0.0	110.0	10.59	0.0	3.44	0.0	0.0	0.0
27	41	0.0	0.0	-0.01	-49.44	0.0	-2.09	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.03	0.0	110.0	-2.09	0.0	7.34	0.0	0.0	0.0
27	43	0.0	807.20	-0.01	-49.44	0.0	-2.09	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-2.09	0.0	-7.34	0.0	0.0	0.0
27	49	0.0	0.0	0.04	-49.44	0.0	-6.95	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	-6.95	0.0	1.19	0.0	0.0	0.0
27	50	0.0	0.0	-0.12	-49.44	0.0	6.95	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.55e-03	0.0	110.0	6.95	0.0	1.19	0.0	0.0	0.0
28	9	0.0	0.0	0.03	-49.44	0.0	-4.75	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-4.75	0.0	21.29	0.0	0.0	0.0

28	11	0.0	2342.07	0.03	-49.44	0.0	-4.75	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-4.75	0.0	-21.29	0.0	0.0	0.0
28	17	0.0	0.0	0.17	-49.44	0.0	-15.82	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-7.16e-03	0.0	110.0	-15.82	0.0	3.44	0.0	0.0	0.0
28	18	0.0	0.0	-0.25	-49.44	0.0	15.82	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	15.82	0.0	3.44	0.0	0.0	0.0
28	25	0.0	0.0	0.17	-49.44	0.0	-12.68	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	-12.68	0.0	3.44	0.0	0.0	0.0
28	41	0.0	0.0	-0.01	-49.44	0.0	-1.84	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.84	0.0	7.34	0.0	0.0	0.0
28	43	0.0	807.20	-0.01	-49.44	0.0	-1.84	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.84	0.0	-7.34	0.0	0.0	0.0
28	49	0.0	0.0	0.04	-49.44	0.0	-6.14	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-2.34e-03	0.0	110.0	-6.14	0.0	1.19	0.0	0.0	0.0
28	50	0.0	0.0	-0.12	-49.44	0.0	6.14	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-4.66e-03	0.0	110.0	6.14	0.0	1.19	0.0	0.0	0.0
29	9	0.0	0.0	0.03	-49.44	0.0	-3.18	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-3.18	0.0	21.29	0.0	0.0	0.0
29	11	0.0	2342.07	0.03	-49.44	0.0	-3.18	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-3.18	0.0	-21.29	0.0	0.0	0.0
29	17	0.0	0.0	0.17	-49.44	0.0	-10.59	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	7.47e-03	0.0	110.0	-10.59	0.0	3.44	0.0	0.0	0.0
29	25	0.0	0.0	0.17	-49.44	0.0	-17.91	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.01	0.0	110.0	-17.91	0.0	3.44	0.0	0.0	0.0
29	26	0.0	0.0	-0.25	-49.44	0.0	17.91	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	17.91	0.0	3.44	0.0	0.0	0.0
29	45	0.0	0.0	-0.01	-49.44	0.0	-2.09	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-2.09	0.0	7.34	0.0	0.0	0.0
29	48	0.0	807.20	-0.06	-49.44	0.0	2.09	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	2.09	0.0	-7.34	0.0	0.0	0.0
29	49	0.0	0.0	0.04	-49.44	0.0	-4.11	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	3.32e-03	0.0	110.0	-4.11	0.0	1.19	0.0	0.0	0.0
29	50	0.0	0.0	-0.12	-49.44	0.0	4.11	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	4.11	0.0	1.19	0.0	0.0	0.0
29	57	0.0	0.0	0.04	-49.44	0.0	-6.95	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.55e-03	0.0	110.0	-6.95	0.0	1.19	0.0	0.0	0.0
29	58	0.0	0.0	-0.12	-49.44	0.0	6.95	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	6.95	0.0	1.19	0.0	0.0	0.0
30	1	2.148e+04	-2567.73	-0.04	-40.86	0.0	-132.86	32.77	5.33	0.0	-3260.32	1.977e+04
		1.977e+04	-3260.32	0.02	0.0	130.0	-132.86	-8.09	5.33	0.0	-2567.73	2.138e+04
30	3	2.201e+04	-2043.23	-0.05	-40.86	0.0	132.86	34.99	-11.31	0.0	-2043.23	2.006e+04
		2.006e+04	-3513.20	0.01	0.0	130.0	132.86	-5.87	-11.31	0.0	-3513.20	2.195e+04
30	26	2.166e+04	1.791e+04	-0.05	-40.86	0.0	-39.86	33.55	19.77	0.0	1.534e+04	1.987e+04
		1.987e+04	1.534e+04	-0.09	0.0	130.0	-39.86	-7.31	19.77	0.0	1.791e+04	2.158e+04
30	27	2.182e+04	-1.534e+04	-0.05	-40.86	0.0	39.86	34.21	-19.77	0.0	-1.534e+04	1.996e+04
		1.996e+04	-1.791e+04	0.09	0.0	130.0	39.86	-6.65	-19.77	0.0	-1.791e+04	2.175e+04
30	33	2.165e+04	-1017.16	-0.05	-40.86	0.0	-45.79	33.50	1.71	0.0	-1238.96	1.987e+04
		1.987e+04	-1238.96	7.02e-03	0.0	130.0	-45.79	-7.36	1.71	0.0	-1017.16	2.156e+04
30	35	2.183e+04	-819.49	-0.05	-40.86	0.0	45.79	34.26	-4.03	0.0	-819.49	1.996e+04
		1.996e+04	-1343.02	5.79e-03	0.0	130.0	45.79	-6.60	-4.03	0.0	-1343.02	2.176e+04
30	58	2.171e+04	6945.74	-0.05	-40.86	0.0	-13.74	33.77	7.57	0.0	5962.19	1.990e+04
		1.990e+04	5962.19	-0.03	0.0	130.0	-13.74	-7.09	7.57	0.0	6945.74	2.163e+04
30	59	2.177e+04	-5962.19	-0.05	-40.86	0.0	13.74	34.00	-7.57	0.0	-5962.19	1.993e+04
		1.993e+04	-6945.74	0.03	0.0	130.0	13.74	-6.86	-7.57	0.0	-6945.74	2.169e+04
31	5	0.0	0.0	0.10	-49.44	0.0	5.29	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.05	0.0	110.0	5.29	-49.44	-21.29	0.0	-2342.07	-2719.21
31	8	0.0	2342.07	-0.03	-49.44	0.0	-5.29	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.05	0.0	110.0	-5.29	-49.44	21.29	0.0	2342.07	-2719.21
31	18	0.0	0.0	-0.17	-49.44	0.0	-10.85	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	-10.85	-49.44	-6.39	0.0	-702.62	-2719.21
31	25	0.0	0.0	0.25	-49.44	0.0	17.65	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.03	0.0	110.0	17.65	-49.44	-6.39	0.0	-702.62	-2719.21
31	26	0.0	0.0	-0.17	-49.44	0.0	-17.65	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.07	0.0	110.0	-17.65	-49.44	-6.39	0.0	-702.62	-2719.21
31	37	0.0	0.0	0.06	-49.44	0.0	2.05	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	2.05	-49.44	-7.34	0.0	-807.20	-2719.21
31	40	0.0	807.20	0.02	-49.44	0.0	-2.05	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-2.05	-49.44	7.34	0.0	807.20	-2719.21
31	49	0.0	0.0	0.12	-49.44	0.0	4.21	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-2.74e-03	0.0	110.0	4.21	-49.44	-2.20	0.0	-242.16	-2719.21
31	56	0.0	130.52	-0.04	-49.44	0.0	-4.21	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	6.08e-03	0.0	110.0	-4.21	-49.44	1.19	0.0	130.52	-2719.21
31	57	0.0	0.0	0.12	-49.44	0.0	6.85	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-0.01	0.0	110.0	6.85	-49.44	-2.20	0.0	-242.16	-2719.21
31	58	0.0	0.0	-0.04	-49.44	0.0	-6.85	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.03	0.0	110.0	-6.85	-49.44	-2.20	0.0	-242.16	-2719.21
32	1	1.697e+04	-1455.90	-0.04	-40.86	0.0	-147.95	73.25	-4.70	0.0	-1455.90	1.010e+04

		1.010e+04	-2066.91	8.33e-03	0.0	130.0	-147.95	32.39	-4.70	0.0	-2066.91	1.697e+04
32	3	1.059e+04	-371.67	-0.04	-40.86	0.0	147.95	115.56	-21.27	0.0	-371.67	-1779.59
		-1779.59	-3136.13	8.35e-03	0.0	130.0	147.95	74.70	-21.27	0.0	-3136.13	1.059e+04
32	18	1.473e+04	8832.12	-0.04	-40.86	0.0	-44.38	88.06	45.76	0.0	2883.32	5940.95
		5940.95	2883.32	-0.03	0.0	130.0	-44.38	47.20	45.76	0.0	8832.12	1.473e+04
32	19	1.282e+04	-2883.32	-0.04	-40.86	0.0	44.38	100.75	-45.76	0.0	-2883.32	2377.62
		2377.62	-8832.12	0.03	0.0	130.0	44.38	59.89	-45.76	0.0	-8832.12	1.282e+04
32	33	1.488e+04	-541.51	-0.04	-40.86	0.0	-50.99	87.12	-2.18	0.0	-541.51	6206.14
		6206.14	-825.47	3.24e-03	0.0	130.0	-50.99	46.25	-2.18	0.0	-825.47	1.488e+04
32	35	1.268e+04	-167.82	-0.04	-40.86	0.0	50.99	101.70	-7.89	0.0	-167.82	2112.43
		2112.43	-1193.98	3.24e-03	0.0	130.0	50.99	60.84	-7.89	0.0	-1193.98	1.268e+04
32	50	1.411e+04	3421.01	-0.04	-40.86	0.0	-15.30	92.22	17.65	0.0	1126.16	4773.34
		4773.34	1126.16	-0.01	0.0	130.0	-15.30	51.36	17.65	0.0	3421.01	1.411e+04
32	51	1.345e+04	-1126.16	-0.04	-40.86	0.0	15.30	96.59	-17.65	0.0	-1126.16	3545.23
		3545.23	-3421.01	0.01	0.0	130.0	15.30	55.73	-17.65	0.0	-3421.01	1.345e+04
33	1	0.0	0.0	0.10	-49.44	0.0	4.82	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.06	0.0	110.0	4.82	-49.44	-21.29	0.0	-2342.07	-2719.21
33	3	0.0	2342.07	0.10	-49.44	0.0	4.82	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.07	0.0	110.0	4.82	-49.44	21.29	0.0	2342.07	-2719.21
33	17	0.0	0.0	0.25	-49.44	0.0	16.08	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.01	0.0	110.0	16.08	-49.44	-6.39	0.0	-702.62	-2719.21
33	18	0.0	0.0	-0.17	-49.44	0.0	-16.08	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.05	0.0	110.0	-16.08	-49.44	-6.39	0.0	-702.62	-2719.21
33	25	0.0	0.0	0.25	-49.44	0.0	12.42	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.01	0.0	110.0	12.42	-49.44	-6.39	0.0	-702.62	-2719.21
33	37	0.0	0.0	0.06	-49.44	0.0	1.45	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.45	-49.44	-7.34	0.0	-807.20	-2719.21
33	40	0.0	807.20	0.02	-49.44	0.0	-1.45	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-1.45	-49.44	7.34	0.0	807.20	-2719.21
33	43	0.0	435.07	0.06	-49.44	0.0	1.87	0.0	3.96	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.87	-49.44	3.96	0.0	435.07	-2719.21
33	49	0.0	0.0	0.12	-49.44	0.0	6.24	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-5.50e-03	0.0	110.0	6.24	-49.44	-2.20	0.0	-242.16	-2719.21
33	50	0.0	0.0	-0.04	-49.44	0.0	-6.24	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	-6.24	-49.44	-2.20	0.0	-242.16	-2719.21
34	9	0.0	0.0	0.03	-49.44	0.0	-3.25	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.07	0.0	110.0	-3.25	0.0	21.29	0.0	0.0	0.0
34	11	0.0	2342.07	0.03	-49.44	0.0	-3.25	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.06	0.0	110.0	-3.25	0.0	-21.29	0.0	0.0	0.0
34	17	0.0	0.0	0.17	-49.44	0.0	-10.85	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	-10.85	0.0	3.44	0.0	0.0	0.0
34	25	0.0	0.0	0.17	-49.44	0.0	-17.65	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.06	0.0	110.0	-17.65	0.0	3.44	0.0	0.0	0.0
34	26	0.0	0.0	-0.25	-49.44	0.0	17.65	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.04	0.0	110.0	17.65	0.0	3.44	0.0	0.0	0.0
34	42	0.0	0.0	-0.06	-49.44	0.0	1.26	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	1.26	0.0	7.34	0.0	0.0	0.0
34	43	0.0	807.20	-0.01	-49.44	0.0	-1.26	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.26	0.0	-7.34	0.0	0.0	0.0
34	49	0.0	0.0	0.04	-49.44	0.0	-4.21	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	-4.21	0.0	1.19	0.0	0.0	0.0
34	50	0.0	0.0	-0.12	-49.44	0.0	4.21	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	6.08e-03	0.0	110.0	4.21	0.0	1.19	0.0	0.0	0.0
34	57	0.0	0.0	0.04	-49.44	0.0	-6.85	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	-6.85	0.0	1.19	0.0	0.0	0.0
34	58	0.0	0.0	-0.12	-49.44	0.0	6.85	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.02	0.0	110.0	6.85	0.0	1.19	0.0	0.0	0.0
35	1	2.138e+04	-620.56	0.09	-40.86	0.0	-40.24	-106.97	23.28	0.0	-3647.47	2.138e+04
		4813.86	-3647.47	1.47e-03	0.0	130.0	-40.24	-147.83	23.28	0.0	-620.56	4813.86
35	3	2.195e+04	-1569.11	0.09	-40.86	0.0	40.24	-104.75	6.65	0.0	-2433.46	2.195e+04
		5678.56	-2433.46	-3.74e-03	0.0	130.0	40.24	-145.61	6.65	0.0	-1569.11	5678.56
35	25	2.158e+04	-6711.80	0.09	-40.86	0.0	-12.07	-106.19	86.46	0.0	-1.795e+04	2.158e+04
		5116.50	-1.795e+04	-0.02	0.0	130.0	-12.07	-147.05	86.46	0.0	-6711.80	5116.50
35	28	2.175e+04	1.795e+04	0.09	-40.86	0.0	12.07	-105.53	-86.46	0.0	1.795e+04	2.175e+04
		5375.91	6711.80	0.02	0.0	130.0	12.07	-146.39	-86.46	0.0	6711.80	5375.91
35	33	2.156e+04	-261.48	0.09	-40.86	0.0	-13.87	-106.24	8.68	0.0	-1389.29	2.156e+04
		5097.20	-1389.29	5.45e-04	0.0	130.0	-13.87	-147.10	8.68	0.0	-261.48	5097.20
35	35	2.176e+04	-588.40	0.09	-40.86	0.0	13.87	-105.48	2.94	0.0	-970.88	2.176e+04
		5395.22	-970.88	-1.40e-03	0.0	130.0	13.87	-146.34	2.94	0.0	-588.40	5395.22
35	57	2.163e+04	-2611.22	0.09	-40.86	0.0	-4.16	-105.97	33.45	0.0	-6959.63	2.163e+04
		5201.51	-6959.63	-8.92e-03	0.0	130.0	-4.16	-146.83	33.45	0.0	-2611.22	5201.51
35	60	2.169e+04	6959.63	0.09	-40.86	0.0	4.16	-105.74	-33.45	0.0	6959.63	2.169e+04
		5290.91	2611.22	8.92e-03	0.0	130.0	4.16	-146.61	-33.45	0.0	2611.22	5290.91
36	1	0.0	0.0	0.10	-49.44	0.0	3.33	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.06	0.0	110.0	3.33	-49.44	-21.29	0.0	-2342.07	-2719.21
36	3	0.0	2342.07	0.10	-49.44	0.0	3.33	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.07	0.0	110.0	3.33	-49.44	21.29	0.0	2342.07	-2719.21

36	24	0.0	378.70	-0.17	-49.44	0.0	-11.11	0.0	3.44	0.0	0.0	0.0
		-2719.21	0.0	-7.36e-03	0.0	110.0	-11.11	-49.44	3.44	0.0	378.70	-2719.21
36	25	0.0	0.0	0.25	-49.44	0.0	17.39	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	2.98e-03	0.0	110.0	17.39	-49.44	-6.39	0.0	-702.62	-2719.21
36	26	0.0	0.0	-0.17	-49.44	0.0	-17.39	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	-17.39	-49.44	-6.39	0.0	-702.62	-2719.21
36	33	0.0	0.0	0.06	-49.44	0.0	1.29	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.29	-49.44	-7.34	0.0	-807.20	-2719.21
36	35	0.0	807.20	0.06	-49.44	0.0	1.29	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.29	-49.44	7.34	0.0	807.20	-2719.21
36	49	0.0	0.0	0.12	-49.44	0.0	4.31	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	5.64e-03	0.0	110.0	4.31	-49.44	-2.20	0.0	-242.16	-2719.21
36	57	0.0	0.0	0.12	-49.44	0.0	6.75	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-1.33e-03	0.0	110.0	6.75	-49.44	-2.20	0.0	-242.16	-2719.21
36	58	0.0	0.0	-0.04	-49.44	0.0	-6.75	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.01	0.0	110.0	-6.75	-49.44	-2.20	0.0	-242.16	-2719.21
37	1	2.195e+04	-2530.50	-0.09	-40.86	0.0	40.24	145.61	-16.87	0.0	-2530.50	5678.56
		5678.56	-4723.87	8.85e-03	0.0	130.0	40.24	104.75	-16.87	0.0	-4723.87	2.195e+04
37	3	2.138e+04	-1581.95	-0.09	-40.86	0.0	-40.24	147.83	-33.51	0.0	-1581.95	4813.86
		4813.86	-5937.88	7.03e-03	0.0	130.0	-40.24	106.97	-33.51	0.0	-5937.88	2.138e+04
37	18	2.175e+04	1.795e+04	-0.09	-40.86	0.0	12.07	146.39	86.46	0.0	6711.80	5375.91
		5375.91	6711.80	-0.03	0.0	130.0	12.07	105.53	86.46	0.0	1.795e+04	2.175e+04
37	19	2.158e+04	-6711.80	-0.09	-40.86	0.0	-12.07	147.05	-86.46	0.0	-6711.80	5116.50
		5116.50	-1.795e+04	0.03	0.0	130.0	-12.07	106.19	-86.46	0.0	-1.795e+04	2.158e+04
37	33	2.176e+04	-961.54	-0.09	-40.86	0.0	13.87	146.34	-6.91	0.0	-961.54	5395.22
		5395.22	-1859.85	3.39e-03	0.0	130.0	13.87	105.48	-6.91	0.0	-1859.85	2.176e+04
37	35	2.156e+04	-634.62	-0.09	-40.86	0.0	-13.87	147.10	-12.64	0.0	-634.62	5097.20
		5097.20	-2278.27	2.77e-03	0.0	130.0	-13.87	106.24	-12.64	0.0	-2278.27	2.156e+04
37	50	2.169e+04	6959.63	-0.09	-40.86	0.0	4.16	146.61	33.45	0.0	2611.22	5290.91
		5290.91	2611.22	-0.01	0.0	130.0	4.16	105.74	33.45	0.0	6959.63	2.169e+04
37	51	2.163e+04	-2611.22	-0.09	-40.86	0.0	-4.16	146.83	-33.45	0.0	-2611.22	5201.51
		5201.51	-6959.63	0.01	0.0	130.0	-4.16	105.97	-33.45	0.0	-6959.63	2.163e+04
38	1	0.0	0.0	0.10	-49.44	0.0	5.45	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.03	0.0	110.0	5.45	-49.44	-21.29	0.0	-2342.07	-2719.21
38	4	0.0	2342.07	-0.03	-49.44	0.0	-5.45	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.03	0.0	110.0	-5.45	-49.44	21.29	0.0	2342.07	-2719.21
38	17	0.0	0.0	0.25	-49.44	0.0	18.17	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.10	0.0	110.0	18.17	-49.44	-6.39	0.0	-702.62	-2719.21
38	18	0.0	0.0	-0.17	-49.44	0.0	-18.17	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.14	0.0	110.0	-18.17	-49.44	-6.39	0.0	-702.62	-2719.21
38	25	0.0	0.0	0.25	-49.44	0.0	10.33	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.05	0.0	110.0	10.33	-49.44	-6.39	0.0	-702.62	-2719.21
38	33	0.0	0.0	0.06	-49.44	0.0	2.12	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	9.88e-03	0.0	110.0	2.12	-49.44	-7.34	0.0	-807.20	-2719.21
38	36	0.0	807.20	0.02	-49.44	0.0	-2.12	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-9.88e-03	0.0	110.0	-2.12	-49.44	7.34	0.0	807.20	-2719.21
38	49	0.0	0.0	0.12	-49.44	0.0	7.05	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-0.04	0.0	110.0	7.05	-49.44	-2.20	0.0	-242.16	-2719.21
38	50	0.0	0.0	-0.04	-49.44	0.0	-7.05	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.05	0.0	110.0	-7.05	-49.44	-2.20	0.0	-242.16	-2719.21
38	55	0.0	130.52	0.12	-49.44	0.0	7.05	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-0.05	0.0	110.0	7.05	-49.44	1.19	0.0	130.52	-2719.21
39	9	0.0	0.0	0.03	-49.44	0.0	-3.33	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.07	0.0	110.0	-3.33	0.0	21.29	0.0	0.0	0.0
39	11	0.0	2342.07	0.03	-49.44	0.0	-3.33	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.06	0.0	110.0	-3.33	0.0	-21.29	0.0	0.0	0.0
39	21	0.0	0.0	0.17	-49.44	0.0	-11.11	49.44	6.39	0.0	-702.62	-2719.21
		-2719.21	-702.62	-0.02	0.0	110.0	-11.11	0.0	6.39	0.0	0.0	0.0
39	25	0.0	0.0	0.17	-49.44	0.0	-17.39	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	-17.39	0.0	3.44	0.0	0.0	0.0
39	26	0.0	0.0	-0.25	-49.44	0.0	17.39	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.01	0.0	110.0	17.39	0.0	3.44	0.0	0.0	0.0
39	41	0.0	0.0	-0.01	-49.44	0.0	-1.29	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.29	0.0	7.34	0.0	0.0	0.0
39	43	0.0	807.20	-0.01	-49.44	0.0	-1.29	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.29	0.0	-7.34	0.0	0.0	0.0
39	50	0.0	0.0	-0.12	-49.44	0.0	4.31	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-2.36e-03	0.0	110.0	4.31	0.0	1.19	0.0	0.0	0.0
39	52	0.0	130.52	-0.12	-49.44	0.0	4.31	49.44	-1.19	0.0	130.52	-2719.21
		-2719.21	0.0	4.53e-03	0.0	110.0	4.31	0.0	-1.19	0.0	0.0	0.0
39	57	0.0	0.0	0.04	-49.44	0.0	-6.75	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	-6.75	0.0	1.19	0.0	0.0	0.0
39	58	0.0	0.0	-0.12	-49.44	0.0	6.75	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	4.59e-03	0.0	110.0	6.75	0.0	1.19	0.0	0.0	0.0
40	1	4813.86	3718.57	0.11	-40.86	0.0	52.37	-246.71	41.68	0.0	-1700.30	4813.86
		-2.991e+04	-1700.30	-6.57e-03	0.0	130.0	52.37	-287.57	41.68	0.0	3718.57	-2.991e+04
40	3	5678.56	2766.94	0.12	-40.86	0.0	-52.37	-244.49	25.05	0.0	-489.37	5678.56

		-2.876e+04	-489.37	-8.25e-03	0.0	130.0	-52.37	-285.35	25.05	0.0	2766.94	-2.876e+04
40	25	5116.50	1.717e+04	0.11	-40.86	0.0	15.71	-245.93	186.23	0.0	-7035.72	5116.50
		-2.951e+04	-7035.72	-0.06	0.0	130.0	15.71	-286.79	186.23	0.0	1.717e+04	-2.951e+04
40	28	5375.91	7035.72	0.11	-40.86	0.0	-15.71	-245.27	-186.23	0.0	7035.72	5375.91
		-2.916e+04	-1.717e+04	0.06	0.0	130.0	-15.71	-286.13	-186.23	0.0	-1.717e+04	-2.916e+04
40	33	5097.20	1422.59	0.11	-40.86	0.0	18.05	-245.98	15.82	0.0	-633.61	5097.20
		-2.954e+04	-633.61	-2.58e-03	0.0	130.0	18.05	-286.84	15.82	0.0	1422.59	-2.954e+04
40	35	5395.22	1094.61	0.11	-40.86	0.0	-18.05	-245.22	10.08	0.0	-216.26	5395.22
		-2.914e+04	-216.26	-3.16e-03	0.0	130.0	-18.05	-286.08	10.08	0.0	1094.61	-2.914e+04
40	57	5201.51	6659.33	0.11	-40.86	0.0	5.41	-245.71	72.17	0.0	-2722.86	5201.51
		-2.940e+04	-2722.86	-0.02	0.0	130.0	5.41	-286.58	72.17	0.0	6659.33	-2.940e+04
40	60	5290.91	2722.86	0.11	-40.86	0.0	-5.41	-245.49	-72.17	0.0	2722.86	5290.91
		-2.928e+04	-6659.33	0.02	0.0	130.0	-5.41	-286.35	-72.17	0.0	-6659.33	-2.928e+04
41	1	0.0	0.0	0.10	-49.44	0.0	3.41	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	3.41	-49.44	-21.29	0.0	-2342.07	-2719.21
41	3	0.0	2342.07	0.10	-49.44	0.0	3.41	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	3.41	-49.44	21.29	0.0	2342.07	-2719.21
41	18	0.0	0.0	-0.17	-49.44	0.0	-11.37	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-5.03e-03	0.0	110.0	-11.37	-49.44	-6.39	0.0	-702.62	-2719.21
41	25	0.0	0.0	0.25	-49.44	0.0	17.13	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	17.13	-49.44	-6.39	0.0	-702.62	-2719.21
41	26	0.0	0.0	-0.17	-49.44	0.0	-17.13	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-4.94e-03	0.0	110.0	-17.13	-49.44	-6.39	0.0	-702.62	-2719.21
41	33	0.0	0.0	0.06	-49.44	0.0	1.32	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.03	0.0	110.0	1.32	-49.44	-7.34	0.0	-807.20	-2719.21
41	35	0.0	807.20	0.06	-49.44	0.0	1.32	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.32	-49.44	7.34	0.0	807.20	-2719.21
41	49	0.0	0.0	0.12	-49.44	0.0	4.41	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	4.41	-49.44	-2.20	0.0	-242.16	-2719.21
41	56	0.0	130.52	-0.04	-49.44	0.0	-4.41	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-0.01	0.0	110.0	-4.41	-49.44	1.19	0.0	130.52	-2719.21
41	57	0.0	0.0	0.12	-49.44	0.0	6.65	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	6.65	-49.44	-2.20	0.0	-242.16	-2719.21
41	58	0.0	0.0	-0.04	-49.44	0.0	-6.65	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-2.76e-03	0.0	110.0	-6.65	-49.44	-2.20	0.0	-242.16	-2719.21
42	9	0.0	0.0	0.03	-49.44	0.0	-4.82	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.07	0.0	110.0	-4.82	0.0	21.29	0.0	0.0	0.0
42	11	0.0	2342.07	0.03	-49.44	0.0	-4.82	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.05	0.0	110.0	-4.82	0.0	-21.29	0.0	0.0	0.0
42	17	0.0	0.0	0.17	-49.44	0.0	-16.08	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.04	0.0	110.0	-16.08	0.0	3.44	0.0	0.0	0.0
42	18	0.0	0.0	-0.25	-49.44	0.0	16.08	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.02	0.0	110.0	16.08	0.0	3.44	0.0	0.0	0.0
42	26	0.0	0.0	-0.25	-49.44	0.0	12.42	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.02	0.0	110.0	12.42	0.0	3.44	0.0	0.0	0.0
42	33	0.0	0.0	-0.01	-49.44	0.0	-1.87	49.44	3.96	0.0	-435.07	-2719.21
		-2719.21	-435.07	-0.02	0.0	110.0	-1.87	0.0	3.96	0.0	0.0	0.0
42	46	0.0	0.0	-0.06	-49.44	0.0	1.45	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	1.45	0.0	7.34	0.0	0.0	0.0
42	47	0.0	807.20	-0.01	-49.44	0.0	-1.45	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.45	0.0	-7.34	0.0	0.0	0.0
42	49	0.0	0.0	0.04	-49.44	0.0	-6.24	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	-6.24	0.0	1.19	0.0	0.0	0.0
42	50	0.0	0.0	-0.12	-49.44	0.0	6.24	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	8.64e-03	0.0	110.0	6.24	0.0	1.19	0.0	0.0	0.0
43	1	1.697e+04	-270.39	0.06	-40.86	0.0	-55.33	-66.49	22.13	0.0	-3146.66	1.697e+04
		5665.49	-3146.66	-6.13e-03	0.0	130.0	-55.33	-107.35	22.13	0.0	-270.39	5665.49
43	3	1.059e+04	-1333.56	0.02	-40.86	0.0	55.33	-24.18	5.56	0.0	-2056.39	1.059e+04
		4787.81	-2056.39	-6.04e-03	0.0	130.0	55.33	-65.04	5.56	0.0	-1333.56	4787.81
43	4	1.059e+04	3146.66	0.02	-40.86	0.0	55.33	-24.18	-22.13	0.0	3146.66	1.059e+04
		4787.81	270.39	6.13e-03	0.0	130.0	55.33	-65.04	-22.13	0.0	270.39	4787.81
43	17	1.473e+04	-2513.77	0.04	-40.86	0.0	-16.60	-51.68	48.63	0.0	-8835.27	1.473e+04
		5358.30	-8835.27	-0.02	0.0	130.0	-16.60	-92.54	48.63	0.0	-2513.77	5358.30
43	20	1.282e+04	8835.27	0.03	-40.86	0.0	16.60	-38.99	-48.63	0.0	8835.27	1.282e+04
		5095.00	2513.77	0.02	0.0	130.0	16.60	-79.85	-48.63	0.0	2513.77	5095.00
43	33	1.488e+04	-128.05	0.05	-40.86	0.0	-19.07	-52.63	8.23	0.0	-1197.60	1.488e+04
		5377.90	-1197.60	-2.38e-03	0.0	130.0	-19.07	-93.49	8.23	0.0	-128.05	5377.90
43	35	1.268e+04	-494.48	0.03	-40.86	0.0	19.07	-38.04	2.52	0.0	-821.84	1.268e+04
		5075.40	-821.84	-2.35e-03	0.0	130.0	19.07	-78.90	2.52	0.0	-494.48	5075.40
43	49	1.411e+04	-982.59	0.04	-40.86	0.0	-5.72	-47.52	18.77	0.0	-3422.10	1.411e+04
		5272.02	-3422.10	-7.88e-03	0.0	130.0	-5.72	-88.38	18.77	0.0	-982.59	5272.02
43	52	1.345e+04	3422.10	0.04	-40.86	0.0	5.72	-43.15	-18.77	0.0	3422.10	1.345e+04
		5181.27	982.59	7.88e-03	0.0	130.0	5.72	-84.01	-18.77	0.0	982.59	5181.27
44	9	0.0	0.0	0.03	-49.44	0.0	-3.41	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-3.41	0.0	21.29	0.0	0.0	0.0
44	11	0.0	2342.07	0.03	-49.44	0.0	-3.41	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-3.41	0.0	-21.29	0.0	0.0	0.0

44	17	0.0	0.0	0.17	-49.44	0.0	-11.37	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.01	0.0	110.0	-11.37	0.0	3.44	0.0	0.0	0.0
44	25	0.0	0.0	0.17	-49.44	0.0	-17.13	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.01	0.0	110.0	-17.13	0.0	3.44	0.0	0.0	0.0
44	26	0.0	0.0	-0.25	-49.44	0.0	17.13	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	17.13	0.0	3.44	0.0	0.0	0.0
44	45	0.0	0.0	-0.01	-49.44	0.0	-1.99	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.99	0.0	7.34	0.0	0.0	0.0
44	48	0.0	807.20	-0.06	-49.44	0.0	1.99	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	1.99	0.0	-7.34	0.0	0.0	0.0
44	49	0.0	0.0	0.04	-49.44	0.0	-4.41	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.98e-03	0.0	110.0	-4.41	0.0	1.19	0.0	0.0	0.0
44	50	0.0	0.0	-0.12	-49.44	0.0	4.41	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	4.41	0.0	1.19	0.0	0.0	0.0
44	57	0.0	0.0	0.04	-49.44	0.0	-6.65	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.95e-03	0.0	110.0	-6.65	0.0	1.19	0.0	0.0	0.0
44	58	0.0	0.0	-0.12	-49.44	0.0	6.65	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	6.65	0.0	1.19	0.0	0.0	0.0
45	1	19.35	2638.93	-0.02	-40.86	0.0	-131.39	250.69	-20.68	0.0	2638.93	-2.991e+04
		-2.991e+04	-49.21	6.48e-03	0.0	130.0	-131.39	209.83	-20.68	0.0	-49.21	19.35
45	3	-271.53	3845.83	-0.01	-40.86	0.0	131.39	239.58	-37.58	0.0	3845.83	-2.876e+04
		-2.876e+04	-1039.13	5.68e-03	0.0	130.0	131.39	198.72	-37.58	0.0	-1039.13	-271.53
45	26	-82.46	2281.64	-0.02	-40.86	0.0	-39.42	246.80	149.88	0.0	-1.720e+04	-2.951e+04
		-2.951e+04	-1.720e+04	-0.01	0.0	130.0	-39.42	205.94	149.88	0.0	2281.64	-82.46
45	27	-169.72	1.720e+04	-0.02	-40.86	0.0	39.42	243.47	-149.88	0.0	1.720e+04	-2.916e+04
		-2.916e+04	-2281.64	0.01	0.0	130.0	39.42	202.61	-149.88	0.0	-2281.64	-169.72
45	33	-75.96	1050.47	-0.02	-40.86	0.0	-45.28	247.05	-8.39	0.0	1050.47	-2.954e+04
		-2.954e+04	-40.62	2.50e-03	0.0	130.0	-45.28	206.19	-8.39	0.0	-40.62	-75.96
45	35	-176.22	1466.44	-0.02	-40.86	0.0	45.28	243.22	-14.22	0.0	1466.44	-2.914e+04
		-2.914e+04	-381.80	2.22e-03	0.0	130.0	45.28	202.36	-14.22	0.0	-381.80	-176.22
45	58	-111.05	879.11	-0.02	-40.86	0.0	-13.59	245.71	58.06	0.0	-6668.93	-2.940e+04
		-2.940e+04	-6668.93	-5.21e-03	0.0	130.0	-13.59	204.85	58.06	0.0	879.11	-111.05
45	59	-141.13	6668.93	-0.02	-40.86	0.0	13.59	244.56	-58.06	0.0	6668.93	-2.928e+04
		-2.928e+04	-879.11	5.21e-03	0.0	130.0	13.59	203.70	-58.06	0.0	-879.11	-141.13
46	1	0.0	0.0	0.10	-49.44	0.0	3.49	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.06	0.0	110.0	3.49	-49.44	-21.29	0.0	-2342.07	-2719.21
46	3	0.0	2342.07	0.10	-49.44	0.0	3.49	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	3.49	-49.44	21.29	0.0	2342.07	-2719.21
46	17	0.0	0.0	0.25	-49.44	0.0	11.63	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	11.63	-49.44	-6.39	0.0	-702.62	-2719.21
46	25	0.0	0.0	0.25	-49.44	0.0	16.86	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	16.86	-49.44	-6.39	0.0	-702.62	-2719.21
46	26	0.0	0.0	-0.17	-49.44	0.0	-16.86	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.03	0.0	110.0	-16.86	-49.44	-6.39	0.0	-702.62	-2719.21
46	33	0.0	0.0	0.06	-49.44	0.0	1.35	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.35	-49.44	-7.34	0.0	-807.20	-2719.21
46	35	0.0	807.20	0.06	-49.44	0.0	1.35	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.35	-49.44	7.34	0.0	807.20	-2719.21
46	43	0.0	435.07	0.06	-49.44	0.0	1.35	0.0	3.96	0.0	0.0	0.0
		-2719.21	0.0	-0.01	0.0	110.0	1.35	-49.44	3.96	0.0	435.07	-2719.21
46	49	0.0	0.0	0.12	-49.44	0.0	4.52	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	6.85e-03	0.0	110.0	4.52	-49.44	-2.20	0.0	-242.16	-2719.21
46	57	0.0	0.0	0.12	-49.44	0.0	6.55	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	3.65e-03	0.0	110.0	6.55	-49.44	-2.20	0.0	-242.16	-2719.21
46	58	0.0	0.0	-0.04	-49.44	0.0	-6.55	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	9.93e-03	0.0	110.0	-6.55	-49.44	-2.20	0.0	-242.16	-2719.21
47	1	0.0	0.0	0.10	-49.44	0.0	4.90	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	4.90	-49.44	-21.29	0.0	-2342.07	-2719.21
47	3	0.0	2342.07	0.10	-49.44	0.0	4.90	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	4.90	-49.44	21.29	0.0	2342.07	-2719.21
47	17	0.0	0.0	0.25	-49.44	0.0	16.34	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.03	0.0	110.0	16.34	-49.44	-6.39	0.0	-702.62	-2719.21
47	18	0.0	0.0	-0.17	-49.44	0.0	-16.34	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	-16.34	-49.44	-6.39	0.0	-702.62	-2719.21
47	29	0.0	0.0	0.25	-49.44	0.0	12.16	0.0	-3.44	0.0	0.0	0.0
		-2719.21	-378.70	5.40e-03	0.0	110.0	12.16	-49.44	-3.44	0.0	-378.70	-2719.21
47	33	0.0	0.0	0.06	-49.44	0.0	1.90	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.90	-49.44	-7.34	0.0	-807.20	-2719.21
47	35	0.0	807.20	0.06	-49.44	0.0	1.90	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.90	-49.44	7.34	0.0	807.20	-2719.21
47	49	0.0	0.0	0.12	-49.44	0.0	6.34	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	9.12e-03	0.0	110.0	6.34	-49.44	-2.20	0.0	-242.16	-2719.21
47	50	0.0	0.0	-0.04	-49.44	0.0	-6.34	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	4.31e-03	0.0	110.0	-6.34	-49.44	-2.20	0.0	-242.16	-2719.21
49	9	0.0	0.0	0.03	-49.44	0.0	-3.49	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-3.49	0.0	21.29	0.0	0.0	0.0
49	11	0.0	2342.07	0.03	-49.44	0.0	-3.49	49.44	-21.29	0.0	2342.07	-2719.21

		-2719.21	0.0	0.06	0.0	110.0	-3.49	0.0	-21.29	0.0	0.0	0.0
49	18	0.0	0.0	-0.25	-49.44	0.0	11.63	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	11.63	0.0	3.44	0.0	0.0	0.0
49	25	0.0	0.0	0.17	-49.44	0.0	-16.86	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.02	0.0	110.0	-16.86	0.0	3.44	0.0	0.0	0.0
49	26	0.0	0.0	-0.25	-49.44	0.0	16.86	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-1.70e-03	0.0	110.0	16.86	0.0	3.44	0.0	0.0	0.0
49	33	0.0	0.0	-0.01	-49.44	0.0	-1.35	49.44	3.96	0.0	-435.07	-2719.21
		-2719.21	-435.07	-0.01	0.0	110.0	-1.35	0.0	3.96	0.0	0.0	0.0
49	41	0.0	0.0	-0.01	-49.44	0.0	-1.35	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.35	0.0	7.34	0.0	0.0	0.0
49	43	0.0	807.20	-0.01	-49.44	0.0	-1.35	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.35	0.0	-7.34	0.0	0.0	0.0
49	50	0.0	0.0	-0.12	-49.44	0.0	4.52	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-3.71e-03	0.0	110.0	4.52	0.0	1.19	0.0	0.0	0.0
49	57	0.0	0.0	0.04	-49.44	0.0	-6.55	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-6.78e-03	0.0	110.0	-6.55	0.0	1.19	0.0	0.0	0.0
49	58	0.0	0.0	-0.12	-49.44	0.0	6.55	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.94e-04	0.0	110.0	6.55	0.0	1.19	0.0	0.0	0.0
50	1	1.179e+04	-1128.95	-0.04	-40.86	0.0	-38.78	110.95	-1.39	0.0	-1128.95	19.35
		19.35	-1309.82	5.26e-03	0.0	130.0	-38.78	70.09	-1.39	0.0	-1309.82	1.179e+04
50	3	1.005e+04	40.61	-0.03	-40.86	0.0	38.78	99.84	-18.29	0.0	40.61	-271.53
		-271.53	-2337.09	5.09e-03	0.0	130.0	38.78	58.98	-18.29	0.0	-2337.09	1.005e+04
50	26	1.118e+04	8856.87	-0.04	-40.86	0.0	-11.63	107.06	53.07	0.0	1957.71	-82.46
		-82.46	1957.71	-0.01	0.0	130.0	-11.63	66.20	53.07	0.0	8856.87	1.118e+04
50	27	1.066e+04	-1957.71	-0.04	-40.86	0.0	11.63	103.73	-53.07	0.0	-1957.71	-169.72
		-169.72	-8856.87	0.01	0.0	130.0	11.63	62.87	-53.07	0.0	-8856.87	1.066e+04
50	33	1.122e+04	-412.75	-0.04	-40.86	0.0	-13.36	107.31	-0.91	0.0	-412.75	-75.96
		-75.96	-530.71	2.04e-03	0.0	130.0	-13.36	66.45	-0.91	0.0	-530.71	1.122e+04
50	35	1.062e+04	-9.66	-0.03	-40.86	0.0	13.36	103.48	-6.73	0.0	-9.66	-176.22
		-176.22	-884.76	1.98e-03	0.0	130.0	13.36	62.62	-6.73	0.0	-884.76	1.062e+04
50	36	1.062e+04	530.71	-0.03	-40.86	0.0	13.36	103.48	0.91	0.0	412.75	-176.22
		-176.22	412.75	-2.04e-03	0.0	130.0	13.36	62.62	0.91	0.0	530.71	1.062e+04
50	58	1.101e+04	3430.90	-0.04	-40.86	0.0	-4.01	105.97	20.49	0.0	767.47	-111.05
		-111.05	767.47	-5.47e-03	0.0	130.0	-4.01	65.11	20.49	0.0	3430.90	1.101e+04
50	59	1.083e+04	-767.47	-0.04	-40.86	0.0	4.01	104.82	-20.49	0.0	-767.47	-141.13
		-141.13	-3430.90	5.47e-03	0.0	130.0	4.01	63.96	-20.49	0.0	-3430.90	1.083e+04
51	1	0.0	0.0	0.10	-49.44	0.0	3.57	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.06	0.0	110.0	3.57	-49.44	-21.29	0.0	-2342.07	-2719.21
51	3	0.0	2342.07	0.10	-49.44	0.0	3.57	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.07	0.0	110.0	3.57	-49.44	21.29	0.0	2342.07	-2719.21
51	18	0.0	0.0	-0.17	-49.44	0.0	-11.90	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	-11.90	-49.44	-6.39	0.0	-702.62	-2719.21
51	25	0.0	0.0	0.25	-49.44	0.0	16.60	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.02	0.0	110.0	16.60	-49.44	-6.39	0.0	-702.62	-2719.21
51	26	0.0	0.0	-0.17	-49.44	0.0	-16.60	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.06	0.0	110.0	-16.60	-49.44	-6.39	0.0	-702.62	-2719.21
51	37	0.0	0.0	0.06	-49.44	0.0	1.93	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.93	-49.44	-7.34	0.0	-807.20	-2719.21
51	40	0.0	807.20	0.02	-49.44	0.0	-1.93	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-1.93	-49.44	7.34	0.0	807.20	-2719.21
51	49	0.0	0.0	0.12	-49.44	0.0	4.62	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-2.39e-03	0.0	110.0	4.62	-49.44	-2.20	0.0	-242.16	-2719.21
51	56	0.0	130.52	-0.04	-49.44	0.0	-4.62	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	5.51e-03	0.0	110.0	-4.62	-49.44	1.19	0.0	130.52	-2719.21
51	57	0.0	0.0	0.12	-49.44	0.0	6.44	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-0.01	0.0	110.0	6.44	-49.44	-2.20	0.0	-242.16	-2719.21
51	58	0.0	0.0	-0.04	-49.44	0.0	-6.44	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	-6.44	-49.44	-2.20	0.0	-242.16	-2719.21
53	9	0.0	0.0	0.03	-49.44	0.0	-4.90	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-4.90	0.0	21.29	0.0	0.0	0.0
53	11	0.0	2342.07	0.03	-49.44	0.0	-4.90	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-4.90	0.0	-21.29	0.0	0.0	0.0
53	17	0.0	0.0	0.17	-49.44	0.0	-16.34	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-3.80e-03	0.0	110.0	-16.34	0.0	3.44	0.0	0.0	0.0
53	18	0.0	0.0	-0.25	-49.44	0.0	16.34	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.02	0.0	110.0	16.34	0.0	3.44	0.0	0.0	0.0
53	26	0.0	0.0	-0.25	-49.44	0.0	12.16	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-4.90e-03	0.0	110.0	12.16	0.0	3.44	0.0	0.0	0.0
53	32	0.0	702.62	-0.25	-49.44	0.0	12.16	49.44	-6.39	0.0	702.62	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	12.16	0.0	-6.39	0.0	0.0	0.0
53	41	0.0	0.0	-0.01	-49.44	0.0	-1.90	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.90	0.0	7.34	0.0	0.0	0.0
53	43	0.0	807.20	-0.01	-49.44	0.0	-1.90	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.90	0.0	-7.34	0.0	0.0	0.0
53	49	0.0	0.0	0.04	-49.44	0.0	-6.34	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-1.03e-03	0.0	110.0	-6.34	0.0	1.19	0.0	0.0	0.0

53	50	0.0	0.0	-0.12	-49.44	0.0	6.34	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-5.99e-03	0.0	110.0	6.34	0.0	1.19	0.0	0.0	0.0
53	51	0.0	130.52	0.04	-49.44	0.0	-6.34	49.44	-1.19	0.0	130.52	-2719.21
		-2719.21	0.0	5.99e-03	0.0	110.0	-6.34	0.0	-1.19	0.0	0.0	0.0
54	9	0.0	0.0	0.03	-49.44	0.0	-3.57	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.07	0.0	110.0	-3.57	0.0	21.29	0.0	0.0	0.0
54	11	0.0	2342.07	0.03	-49.44	0.0	-3.57	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.06	0.0	110.0	-3.57	0.0	-21.29	0.0	0.0	0.0
54	17	0.0	0.0	0.17	-49.44	0.0	-11.90	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	-11.90	0.0	3.44	0.0	0.0	0.0
54	25	0.0	0.0	0.17	-49.44	0.0	-16.60	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.05	0.0	110.0	-16.60	0.0	3.44	0.0	0.0	0.0
54	26	0.0	0.0	-0.25	-49.44	0.0	16.60	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.03	0.0	110.0	16.60	0.0	3.44	0.0	0.0	0.0
54	46	0.0	0.0	-0.06	-49.44	0.0	1.93	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	1.93	0.0	7.34	0.0	0.0	0.0
54	47	0.0	807.20	-0.01	-49.44	0.0	-1.93	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.93	0.0	-7.34	0.0	0.0	0.0
54	49	0.0	0.0	0.04	-49.44	0.0	-4.62	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	-4.62	0.0	1.19	0.0	0.0	0.0
54	50	0.0	0.0	-0.12	-49.44	0.0	4.62	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.51e-03	0.0	110.0	4.62	0.0	1.19	0.0	0.0	0.0
54	57	0.0	0.0	0.04	-49.44	0.0	-6.44	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	-6.44	0.0	1.19	0.0	0.0	0.0
54	58	0.0	0.0	-0.12	-49.44	0.0	6.44	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.01	0.0	110.0	6.44	0.0	1.19	0.0	0.0	0.0
55	1	1.179e+04	-5.52	0.02	-40.86	0.0	53.84	-28.79	18.34	0.0	-2389.56	1.179e+04
		5387.45	-2389.56	-4.89e-03	0.0	130.0	53.84	-69.65	18.34	0.0	-5.52	5387.45
55	3	1.005e+04	-1070.15	0.02	-40.86	0.0	-53.84	-39.90	1.44	0.0	-1257.35	1.005e+04
		2208.93	-1257.35	-4.69e-03	0.0	130.0	-53.84	-80.76	1.44	0.0	-1070.15	2208.93
55	25	1.118e+04	-2719.80	0.02	-40.86	0.0	16.15	-32.68	47.33	0.0	-8872.61	1.118e+04
		4274.97	-8872.61	-0.03	0.0	130.0	16.15	-73.54	47.33	0.0	-2719.80	4274.97
55	28	1.066e+04	8872.61	0.02	-40.86	0.0	-16.15	-36.01	-47.33	0.0	8872.61	1.066e+04
		3321.41	2719.80	0.03	0.0	130.0	-16.15	-76.87	-47.33	0.0	2719.80	3321.41
55	33	1.122e+04	-25.29	0.02	-40.86	0.0	18.56	-32.43	6.75	0.0	-902.84	1.122e+04
		4345.94	-902.84	-1.89e-03	0.0	130.0	18.56	-73.29	6.75	0.0	-25.29	4345.94
55	35	1.062e+04	-392.21	0.02	-40.86	0.0	-18.56	-36.26	0.93	0.0	-512.62	1.062e+04
		3250.45	-512.62	-1.82e-03	0.0	130.0	-18.56	-77.12	0.93	0.0	-392.21	3250.45
55	57	1.101e+04	-1062.57	0.02	-40.86	0.0	5.57	-33.77	18.26	0.0	-3436.32	1.101e+04
		3962.51	-3436.32	-0.01	0.0	130.0	5.57	-74.63	18.26	0.0	-1062.57	3962.51
55	60	1.083e+04	3436.32	0.02	-40.86	0.0	-5.57	-34.92	-18.26	0.0	3436.32	1.083e+04
		3633.87	1062.57	0.01	0.0	130.0	-5.57	-75.78	-18.26	0.0	1062.57	3633.87
56	1	0.0	0.0	0.10	-49.44	0.0	3.65	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	3.65	-49.44	-21.29	0.0	-2342.07	-2719.21
56	3	0.0	2342.07	0.10	-49.44	0.0	3.65	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	3.65	-49.44	21.29	0.0	2342.07	-2719.21
56	17	0.0	0.0	0.25	-49.44	0.0	12.16	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	12.16	-49.44	-6.39	0.0	-702.62	-2719.21
56	25	0.0	0.0	0.25	-49.44	0.0	16.34	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	16.34	-49.44	-6.39	0.0	-702.62	-2719.21
56	26	0.0	0.0	-0.17	-49.44	0.0	-16.34	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.03	0.0	110.0	-16.34	-49.44	-6.39	0.0	-702.62	-2719.21
56	30	0.0	0.0	-0.17	-49.44	0.0	-16.34	0.0	-3.44	0.0	0.0	0.0
		-2719.21	-378.70	0.02	0.0	110.0	-16.34	-49.44	-3.44	0.0	-378.70	-2719.21
56	33	0.0	0.0	0.06	-49.44	0.0	1.42	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.42	-49.44	-7.34	0.0	-807.20	-2719.21
56	35	0.0	807.20	0.06	-49.44	0.0	1.42	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.42	-49.44	7.34	0.0	807.20	-2719.21
56	49	0.0	0.0	0.12	-49.44	0.0	4.72	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	8.69e-03	0.0	110.0	4.72	-49.44	-2.20	0.0	-242.16	-2719.21
56	50	0.0	0.0	-0.04	-49.44	0.0	-4.72	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	4.69e-03	0.0	110.0	-4.72	-49.44	-2.20	0.0	-242.16	-2719.21
56	57	0.0	0.0	0.12	-49.44	0.0	6.34	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	4.31e-03	0.0	110.0	6.34	-49.44	-2.20	0.0	-242.16	-2719.21
56	58	0.0	0.0	-0.04	-49.44	0.0	-6.34	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	9.12e-03	0.0	110.0	-6.34	-49.44	-2.20	0.0	-242.16	-2719.21
57	1	5665.49	5071.07	0.08	-40.86	0.0	37.28	-206.23	49.39	0.0	-1350.13	5665.49
		-2.380e+04	-1350.13	-7.80e-03	0.0	130.0	37.28	-247.09	49.39	0.0	5071.07	-2.380e+04
57	3	4787.81	4013.94	0.03	-40.86	0.0	-37.28	-163.92	32.83	0.0	-253.82	4787.81
		-1.918e+04	-253.82	-7.55e-03	0.0	130.0	-37.28	-204.78	32.83	0.0	4013.94	-1.918e+04
57	17	5358.30	1.530e+04	0.06	-40.86	0.0	11.19	-191.42	139.52	0.0	-2837.69	5358.30
		-2.218e+04	-2837.69	-0.03	0.0	130.0	11.19	-232.28	139.52	0.0	1.530e+04	-2.218e+04
57	20	5095.00	2837.69	0.05	-40.86	0.0	-11.19	-178.73	-139.52	0.0	2837.69	5095.00
		-2.080e+04	-1.530e+04	0.03	0.0	130.0	-11.19	-219.59	-139.52	0.0	-1.530e+04	-2.080e+04
57	33	5377.90	1945.24	0.07	-40.86	0.0	12.85	-192.37	18.81	0.0	-500.19	5377.90
		-2.229e+04	-500.19	-3.02e-03	0.0	130.0	12.85	-233.23	18.81	0.0	1945.24	-2.229e+04
57	37	5377.90	1490.57	0.07	-40.86	0.0	12.85	-192.37	15.09	0.0	-471.56	5377.90

		-2.229e+04	-471.56	-3.54e-03	0.0	130.0	12.85	-233.23	15.09	0.0	1490.57	-2.229e+04
57	40	5075.40	471.56	0.05	-40.86	0.0	-12.85	-177.79	-15.09	0.0	471.56	5075.40
		-2.069e+04	-1490.57	3.54e-03	0.0	130.0	-12.85	-218.65	-15.09	0.0	-1490.57	-2.069e+04
57	49	5272.02	5931.56	0.06	-40.86	0.0	3.85	-187.26	54.04	0.0	-1094.24	5272.02
		-2.173e+04	-1094.24	-9.94e-03	0.0	130.0	3.85	-228.12	54.04	0.0	5931.56	-2.173e+04
57	52	5181.27	1094.24	0.05	-40.86	0.0	-3.85	-182.89	-54.04	0.0	1094.24	5181.27
		-2.125e+04	-5931.56	9.94e-03	0.0	130.0	-3.85	-223.75	-54.04	0.0	-5931.56	-2.125e+04
58	2	0.0	0.0	-0.03	-49.44	0.0	-4.98	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.05	0.0	110.0	-4.98	-49.44	-21.29	0.0	-2342.07	-2719.21
58	3	0.0	2342.07	0.10	-49.44	0.0	4.98	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.05	0.0	110.0	4.98	-49.44	21.29	0.0	2342.07	-2719.21
58	17	0.0	0.0	0.25	-49.44	0.0	16.60	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.06	0.0	110.0	16.60	-49.44	-6.39	0.0	-702.62	-2719.21
58	18	0.0	0.0	-0.17	-49.44	0.0	-16.60	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.02	0.0	110.0	-16.60	-49.44	-6.39	0.0	-702.62	-2719.21
58	25	0.0	0.0	0.25	-49.44	0.0	11.90	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	11.90	-49.44	-6.39	0.0	-702.62	-2719.21
58	34	0.0	0.0	0.02	-49.44	0.0	-1.93	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	-1.93	-49.44	-7.34	0.0	-807.20	-2719.21
58	35	0.0	807.20	0.06	-49.44	0.0	1.93	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.93	-49.44	7.34	0.0	807.20	-2719.21
58	49	0.0	0.0	0.12	-49.44	0.0	6.44	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	6.44	-49.44	-2.20	0.0	-242.16	-2719.21
58	50	0.0	0.0	-0.04	-49.44	0.0	-6.44	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-0.01	0.0	110.0	-6.44	-49.44	-2.20	0.0	-242.16	-2719.21
58	56	0.0	130.52	-0.04	-49.44	0.0	-6.44	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-6.44	-49.44	1.19	0.0	130.52	-2719.21
59	9	0.0	0.0	0.03	-49.44	0.0	-3.65	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-3.65	0.0	21.29	0.0	0.0	0.0
59	11	0.0	2342.07	0.03	-49.44	0.0	-3.65	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-3.65	0.0	-21.29	0.0	0.0	0.0
59	18	0.0	0.0	-0.25	-49.44	0.0	12.16	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.02	0.0	110.0	12.16	0.0	3.44	0.0	0.0	0.0
59	25	0.0	0.0	0.17	-49.44	0.0	-16.34	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.02	0.0	110.0	-16.34	0.0	3.44	0.0	0.0	0.0
59	26	0.0	0.0	-0.25	-49.44	0.0	16.34	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-3.80e-03	0.0	110.0	16.34	0.0	3.44	0.0	0.0	0.0
59	31	0.0	702.62	0.17	-49.44	0.0	-16.34	49.44	-6.39	0.0	702.62	-2719.21
		-2719.21	0.0	0.01	0.0	110.0	-16.34	0.0	-6.39	0.0	0.0	0.0
59	41	0.0	0.0	-0.01	-49.44	0.0	-1.42	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.42	0.0	7.34	0.0	0.0	0.0
59	43	0.0	807.20	-0.01	-49.44	0.0	-1.42	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.42	0.0	-7.34	0.0	0.0	0.0
59	50	0.0	0.0	-0.12	-49.44	0.0	4.72	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-5.56e-03	0.0	110.0	4.72	0.0	1.19	0.0	0.0	0.0
59	51	0.0	130.52	0.04	-49.44	0.0	-4.72	49.44	-1.19	0.0	130.52	-2719.21
		-2719.21	0.0	5.56e-03	0.0	110.0	-4.72	0.0	-1.19	0.0	0.0	0.0
59	57	0.0	0.0	0.04	-49.44	0.0	-6.34	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-5.99e-03	0.0	110.0	-6.34	0.0	1.19	0.0	0.0	0.0
59	58	0.0	0.0	-0.12	-49.44	0.0	6.34	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-1.03e-03	0.0	110.0	6.34	0.0	1.19	0.0	0.0	0.0
60	1	5387.45	3921.33	0.04	-40.86	0.0	146.46	-168.53	38.51	0.0	-1085.26	5387.45
		-1.918e+04	-1085.26	-5.76e-03	0.0	130.0	146.46	-209.40	38.51	0.0	3921.33	-1.918e+04
60	3	2208.93	2819.36	0.02	-40.86	0.0	-146.46	-179.64	21.61	0.0	9.59	2208.93
		-2.380e+04	9.59	-5.40e-03	0.0	130.0	-146.46	-220.50	21.61	0.0	2819.36	-2.380e+04
60	25	4274.97	1.531e+04	0.04	-40.86	0.0	43.94	-172.42	141.18	0.0	-3043.73	4274.97
		-2.080e+04	-3043.73	-0.04	0.0	130.0	43.94	-213.28	141.18	0.0	1.531e+04	-2.080e+04
60	28	3321.41	3043.73	0.03	-40.86	0.0	-43.94	-175.75	-141.18	0.0	3043.73	3321.41
		-2.218e+04	-1.531e+04	0.04	0.0	130.0	-43.94	-216.61	-141.18	0.0	-1.531e+04	-2.218e+04
60	33	4345.94	1498.02	0.04	-40.86	0.0	50.48	-172.17	14.58	0.0	-397.42	4345.94
		-2.069e+04	-397.42	-2.23e-03	0.0	130.0	50.48	-213.03	14.58	0.0	1498.02	-2.069e+04
60	35	3250.45	1118.22	0.03	-40.86	0.0	-50.48	-176.00	8.76	0.0	-20.07	3250.45
		-2.229e+04	-20.07	-2.10e-03	0.0	130.0	-50.48	-216.86	8.76	0.0	1118.22	-2.229e+04
60	57	3962.51	5934.98	0.03	-40.86	0.0	15.14	-173.51	54.69	0.0	-1174.21	3962.51
		-2.125e+04	-1174.21	-0.02	0.0	130.0	15.14	-214.37	54.69	0.0	5934.98	-2.125e+04
60	60	3633.87	1174.21	0.03	-40.86	0.0	-15.14	-174.66	-54.69	0.0	1174.21	3633.87
		-2.173e+04	-5934.98	0.02	0.0	130.0	-15.14	-215.52	-54.69	0.0	-5934.98	-2.173e+04
61	2	0.0	0.0	-0.03	-49.44	0.0	-3.73	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.05	0.0	110.0	-3.73	-49.44	-21.29	0.0	-2342.07	-2719.21
61	3	0.0	2342.07	0.10	-49.44	0.0	3.73	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.05	0.0	110.0	3.73	-49.44	21.29	0.0	2342.07	-2719.21
61	18	0.0	0.0	-0.17	-49.44	0.0	-12.42	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.01	0.0	110.0	-12.42	-49.44	-6.39	0.0	-702.62	-2719.21
61	25	0.0	0.0	0.25	-49.44	0.0	16.08	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.05	0.0	110.0	16.08	-49.44	-6.39	0.0	-702.62	-2719.21
61	26	0.0	0.0	-0.17	-49.44	0.0	-16.08	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.01	0.0	110.0	-16.08	-49.44	-6.39	0.0	-702.62	-2719.21

61	33	0.0	0.0	0.06	-49.44	0.0	1.45	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.03	0.0	110.0	1.45	-49.44	-7.34	0.0	-807.20	-2719.21
61	35	0.0	807.20	0.06	-49.44	0.0	1.45	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.45	-49.44	7.34	0.0	807.20	-2719.21
61	43	0.0	435.07	0.06	-49.44	0.0	1.45	0.0	3.96	0.0	0.0	0.0
		-2719.21	0.0	-8.18e-03	0.0	110.0	1.45	-49.44	3.96	0.0	435.07	-2719.21
61	49	0.0	0.0	0.12	-49.44	0.0	4.82	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	4.82	-49.44	-2.20	0.0	-242.16	-2719.21
61	57	0.0	0.0	0.12	-49.44	0.0	6.24	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	6.24	-49.44	-2.20	0.0	-242.16	-2719.21
61	58	0.0	0.0	-0.04	-49.44	0.0	-6.24	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-5.50e-03	0.0	110.0	-6.24	-49.44	-2.20	0.0	-242.16	-2719.21
62	10	0.0	0.0	-0.10	-49.44	0.0	5.45	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.03	0.0	110.0	5.45	0.0	21.29	0.0	0.0	0.0
62	11	0.0	2342.07	0.03	-49.44	0.0	-5.45	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.03	0.0	110.0	-5.45	0.0	-21.29	0.0	0.0	0.0
62	17	0.0	0.0	0.17	-49.44	0.0	-18.17	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.13	0.0	110.0	-18.17	0.0	3.44	0.0	0.0	0.0
62	18	0.0	0.0	-0.25	-49.44	0.0	18.17	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.11	0.0	110.0	18.17	0.0	3.44	0.0	0.0	0.0
62	26	0.0	0.0	-0.25	-49.44	0.0	10.33	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.06	0.0	110.0	10.33	0.0	3.44	0.0	0.0	0.0
62	42	0.0	0.0	-0.06	-49.44	0.0	2.12	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-8.37e-03	0.0	110.0	2.12	0.0	7.34	0.0	0.0	0.0
62	43	0.0	807.20	-0.01	-49.44	0.0	-2.12	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	8.37e-03	0.0	110.0	-2.12	0.0	-7.34	0.0	0.0	0.0
62	49	0.0	0.0	0.04	-49.44	0.0	-7.05	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.05	0.0	110.0	-7.05	0.0	1.19	0.0	0.0	0.0
62	50	0.0	0.0	-0.12	-49.44	0.0	7.05	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.04	0.0	110.0	7.05	0.0	1.19	0.0	0.0	0.0
63	1	2.201e+04	-4048.52	0.04	-40.86	0.0	132.86	5.87	13.50	0.0	-5803.61	2.195e+04
		2.006e+04	-5803.61	-0.02	0.0	130.0	132.86	-34.99	13.50	0.0	-4048.52	2.006e+04
63	3	2.148e+04	-4858.14	0.04	-40.86	0.0	-132.86	8.09	-3.13	0.0	-4858.14	2.138e+04
		1.977e+04	-5265.61	-0.03	0.0	130.0	-132.86	-32.77	-3.13	0.0	-5265.61	1.977e+04
63	17	2.182e+04	-1.534e+04	0.04	-40.86	0.0	39.86	6.65	19.77	0.0	-1.791e+04	2.175e+04
		1.996e+04	-1.791e+04	-0.09	0.0	130.0	39.86	-34.21	19.77	0.0	-1.534e+04	1.996e+04
63	20	2.166e+04	1.791e+04	0.04	-40.86	0.0	-39.86	7.31	-19.77	0.0	1.791e+04	2.158e+04
		1.987e+04	1.534e+04	0.09	0.0	130.0	-39.86	-33.55	-19.77	0.0	1.534e+04	1.987e+04
63	33	2.183e+04	-1597.80	0.04	-40.86	0.0	45.79	6.60	4.88	0.0	-2231.99	2.176e+04
		1.996e+04	-2231.99	-9.62e-03	0.0	130.0	45.79	-34.26	4.88	0.0	-1597.80	1.996e+04
63	35	2.165e+04	-1906.13	0.04	-40.86	0.0	-45.79	7.36	-0.85	0.0	-1906.13	2.158e+04
		1.987e+04	-2017.27	-0.01	0.0	130.0	-45.79	-33.50	-0.85	0.0	-2017.27	1.987e+04
63	49	2.177e+04	-5962.19	0.04	-40.86	0.0	13.74	6.86	7.57	0.0	-6945.74	2.169e+04
		1.993e+04	-6945.74	-0.03	0.0	130.0	13.74	-34.00	7.57	0.0	-5962.19	1.993e+04
63	52	2.171e+04	6945.74	0.04	-40.86	0.0	-13.74	7.09	-7.57	0.0	6945.74	2.163e+04
		1.990e+04	5962.19	0.03	0.0	130.0	-13.74	-33.77	-7.57	0.0	5962.19	1.990e+04
64	9	0.0	0.0	0.03	-49.44	0.0	-3.73	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.05	0.0	110.0	-3.73	0.0	21.29	0.0	0.0	0.0
64	12	0.0	2342.07	-0.10	-49.44	0.0	3.73	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.05	0.0	110.0	3.73	0.0	-21.29	0.0	0.0	0.0
64	17	0.0	0.0	0.17	-49.44	0.0	-12.42	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.02	0.0	110.0	-12.42	0.0	3.44	0.0	0.0	0.0
64	25	0.0	0.0	0.17	-49.44	0.0	-16.08	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.02	0.0	110.0	-16.08	0.0	3.44	0.0	0.0	0.0
64	26	0.0	0.0	-0.25	-49.44	0.0	16.08	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.04	0.0	110.0	16.08	0.0	3.44	0.0	0.0	0.0
64	33	0.0	0.0	-0.01	-49.44	0.0	-1.45	49.44	3.96	0.0	-435.07	-2719.21
		-2719.21	-435.07	-7.96e-03	0.0	110.0	-1.45	0.0	3.96	0.0	0.0	0.0
64	41	0.0	0.0	-0.01	-49.44	0.0	-1.45	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.45	0.0	7.34	0.0	0.0	0.0
64	44	0.0	807.20	-0.06	-49.44	0.0	1.45	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	1.45	0.0	-7.34	0.0	0.0	0.0
64	50	0.0	0.0	-0.12	-49.44	0.0	4.82	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	4.82	0.0	1.19	0.0	0.0	0.0
64	57	0.0	0.0	0.04	-49.44	0.0	-6.24	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	8.64e-03	0.0	110.0	-6.24	0.0	1.19	0.0	0.0	0.0
64	58	0.0	0.0	-0.12	-49.44	0.0	6.24	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	6.24	0.0	1.19	0.0	0.0	0.0
65	1	4787.81	2842.49	-0.03	-40.86	0.0	-37.28	204.78	-23.25	0.0	2842.49	-1.918e+04
		-1.918e+04	-180.04	8.93e-03	0.0	130.0	-37.28	163.92	-23.25	0.0	-180.04	4787.81
65	3	5665.49	3899.62	-0.08	-40.86	0.0	37.28	247.09	-39.82	0.0	3899.62	-2.380e+04
		-2.380e+04	-1276.35	9.13e-03	0.0	130.0	37.28	206.23	-39.82	0.0	-1276.35	5665.49
65	26	5095.00	2837.69	-0.05	-40.86	0.0	-11.19	219.59	139.52	0.0	-1.530e+04	-2.080e+04
		-2.080e+04	-1.530e+04	-0.03	0.0	130.0	-11.19	178.73	139.52	0.0	2837.69	5095.00
65	27	5358.30	1.530e+04	-0.06	-40.86	0.0	11.19	232.28	-139.52	0.0	1.530e+04	-2.218e+04
		-2.218e+04	-2837.69	0.03	0.0	130.0	11.19	191.42	-139.52	0.0	-2837.69	5358.30
65	33	5075.40	1126.23	-0.05	-40.86	0.0	-12.85	218.65	-9.38	0.0	1126.23	-2.069e+04

		-2.069e+04	-93.71	3.47e-03	0.0	130.0	-12.85	177.79	-9.38	0.0	-93.71	5075.40
65	35	5377.90	1490.57	-0.07	-40.86	0.0	12.85	233.23	-15.09	0.0	1490.57	-2.229e+04
		-2.229e+04	-471.56	3.54e-03	0.0	130.0	12.85	192.37	-15.09	0.0	-471.56	5377.90
65	36	5377.90	93.71	-0.07	-40.86	0.0	12.85	233.23	9.38	0.0	-1126.23	-2.229e+04
		-2.229e+04	-1126.23	-3.47e-03	0.0	130.0	12.85	192.37	9.38	0.0	93.71	5377.90
65	58	5181.27	1094.24	-0.05	-40.86	0.0	-3.85	223.75	54.04	0.0	-5931.56	-2.125e+04
		-2.125e+04	-5931.56	-9.83e-03	0.0	130.0	-3.85	182.89	54.04	0.0	1094.24	5181.27
65	59	5272.02	5931.56	-0.06	-40.86	0.0	3.85	228.12	-54.04	0.0	5931.56	-2.173e+04
		-2.173e+04	-1094.24	9.83e-03	0.0	130.0	3.85	187.26	-54.04	0.0	-1094.24	5272.02
66	1	0.0	0.0	0.10	-49.44	0.0	3.80	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	3.80	-49.44	-21.29	0.0	-2342.07	-2719.21
66	3	0.0	2342.07	0.10	-49.44	0.0	3.80	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	3.80	-49.44	21.29	0.0	2342.07	-2719.21
66	17	0.0	0.0	0.25	-49.44	0.0	12.68	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	12.68	-49.44	-6.39	0.0	-702.62	-2719.21
66	18	0.0	0.0	-0.17	-49.44	0.0	-12.68	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	-12.68	-49.44	-6.39	0.0	-702.62	-2719.21
66	25	0.0	0.0	0.25	-49.44	0.0	15.82	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	15.82	-49.44	-6.39	0.0	-702.62	-2719.21
66	26	0.0	0.0	-0.17	-49.44	0.0	-15.82	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	-15.82	-49.44	-6.39	0.0	-702.62	-2719.21
66	33	0.0	0.0	0.06	-49.44	0.0	1.48	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.48	-49.44	-7.34	0.0	-807.20	-2719.21
66	35	0.0	807.20	0.06	-49.44	0.0	1.48	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.48	-49.44	7.34	0.0	807.20	-2719.21
66	49	0.0	0.0	0.12	-49.44	0.0	4.92	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	8.01e-03	0.0	110.0	4.92	-49.44	-2.20	0.0	-242.16	-2719.21
66	55	0.0	130.52	0.12	-49.44	0.0	4.92	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-2.23e-03	0.0	110.0	4.92	-49.44	1.19	0.0	130.52	-2719.21
66	57	0.0	0.0	0.12	-49.44	0.0	6.14	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	5.52e-03	0.0	110.0	6.14	-49.44	-2.20	0.0	-242.16	-2719.21
66	58	0.0	0.0	-0.04	-49.44	0.0	-6.14	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	7.81e-03	0.0	110.0	-6.14	-49.44	-2.20	0.0	-242.16	-2719.21
67	9	0.0	0.0	0.03	-49.44	0.0	-4.98	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.05	0.0	110.0	-4.98	0.0	21.29	0.0	0.0	0.0
67	12	0.0	2342.07	-0.10	-49.44	0.0	4.98	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.05	0.0	110.0	4.98	0.0	-21.29	0.0	0.0	0.0
67	17	0.0	0.0	0.17	-49.44	0.0	-16.60	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.03	0.0	110.0	-16.60	0.0	3.44	0.0	0.0	0.0
67	18	0.0	0.0	-0.25	-49.44	0.0	16.60	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.05	0.0	110.0	16.60	0.0	3.44	0.0	0.0	0.0
67	26	0.0	0.0	-0.25	-49.44	0.0	11.90	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	11.90	0.0	3.44	0.0	0.0	0.0
67	41	0.0	0.0	-0.01	-49.44	0.0	-1.93	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.93	0.0	7.34	0.0	0.0	0.0
67	44	0.0	807.20	-0.06	-49.44	0.0	1.93	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	1.93	0.0	-7.34	0.0	0.0	0.0
67	49	0.0	0.0	0.04	-49.44	0.0	-6.44	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.01	0.0	110.0	-6.44	0.0	1.19	0.0	0.0	0.0
67	50	0.0	0.0	-0.12	-49.44	0.0	6.44	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	6.44	0.0	1.19	0.0	0.0	0.0
68	1	2208.93	3992.38	-0.02	-40.86	0.0	-146.46	220.50	-33.14	0.0	3992.38	-2.380e+04
		-2.380e+04	-316.42	0.01	0.0	130.0	-146.46	179.64	-33.14	0.0	-316.42	2208.93
68	3	5387.45	5094.35	-0.04	-40.86	0.0	146.46	209.40	-50.04	0.0	5094.35	-1.918e+04
		-1.918e+04	-1411.28	0.01	0.0	130.0	146.46	168.53	-50.04	0.0	-1411.28	5387.45
68	18	3321.41	3043.73	-0.03	-40.86	0.0	-43.94	216.61	141.18	0.0	-1.531e+04	-2.218e+04
		-2.218e+04	-1.531e+04	-0.04	0.0	130.0	-43.94	175.75	141.18	0.0	3043.73	3321.41
68	19	4274.97	1.531e+04	-0.04	-40.86	0.0	43.94	213.28	-141.18	0.0	1.531e+04	-2.080e+04
		-2.080e+04	-3043.73	0.04	0.0	130.0	43.94	172.42	-141.18	0.0	-3043.73	4274.97
68	33	3250.45	1573.50	-0.03	-40.86	0.0	-50.48	216.86	-13.23	0.0	1573.50	-2.229e+04
		-2.229e+04	-146.61	4.62e-03	0.0	130.0	-50.48	176.00	-13.23	0.0	-146.61	3250.45
68	35	4345.94	1953.30	-0.04	-40.86	0.0	50.48	213.03	-19.06	0.0	1953.30	-2.069e+04
		-2.069e+04	-523.96	4.73e-03	0.0	130.0	50.48	172.17	-19.06	0.0	-523.96	4345.94
68	50	3633.87	1174.21	-0.03	-40.86	0.0	-15.14	215.52	54.69	0.0	-5934.98	-2.173e+04
		-2.173e+04	-5934.98	-0.02	0.0	130.0	-15.14	174.66	54.69	0.0	1174.21	3633.87
68	51	3962.51	5934.98	-0.03	-40.86	0.0	15.14	214.37	-54.69	0.0	5934.98	-2.125e+04
		-2.125e+04	-1174.21	0.02	0.0	130.0	15.14	173.51	-54.69	0.0	-1174.21	3962.51
69	9	0.0	0.0	0.03	-49.44	0.0	-3.80	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-3.80	0.0	21.29	0.0	0.0	0.0
69	11	0.0	2342.07	0.03	-49.44	0.0	-3.80	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-3.80	0.0	-21.29	0.0	0.0	0.0
69	17	0.0	0.0	0.17	-49.44	0.0	-12.68	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-6.63e-03	0.0	110.0	-12.68	0.0	3.44	0.0	0.0	0.0
69	18	0.0	0.0	-0.25	-49.44	0.0	12.68	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	12.68	0.0	3.44	0.0	0.0	0.0
69	25	0.0	0.0	0.17	-49.44	0.0	-15.82	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	-15.82	0.0	3.44	0.0	0.0	0.0

69	26	0.0	0.0	-0.25	-49.44	0.0	15.82	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-7.16e-03	0.0	110.0	15.82	0.0	3.44	0.0	0.0	0.0
69	41	0.0	0.0	-0.01	-49.44	0.0	-1.48	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.48	0.0	7.34	0.0	0.0	0.0
69	43	0.0	807.20	-0.01	-49.44	0.0	-1.48	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.48	0.0	-7.34	0.0	0.0	0.0
69	50	0.0	0.0	-0.12	-49.44	0.0	4.92	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-4.87e-03	0.0	110.0	4.92	0.0	1.19	0.0	0.0	0.0
69	57	0.0	0.0	0.04	-49.44	0.0	-6.14	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-4.66e-03	0.0	110.0	-6.14	0.0	1.19	0.0	0.0	0.0
69	58	0.0	0.0	-0.12	-49.44	0.0	6.14	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-2.34e-03	0.0	110.0	6.14	0.0	1.19	0.0	0.0	0.0
70	1	1.059e+04	-1259.78	-0.02	-40.86	0.0	55.33	65.04	-2.19	0.0	-1259.78	4787.81
		4787.81	-1544.46	7.04e-03	0.0	130.0	55.33	24.18	-2.19	0.0	-1544.46	1.059e+04
70	3	1.697e+04	-196.61	-0.06	-40.86	0.0	-55.33	107.35	-18.75	0.0	-196.61	5665.49
		5665.49	-2634.73	7.13e-03	0.0	130.0	-55.33	66.49	-18.75	0.0	-2634.73	1.697e+04
70	5	1.059e+04	-1333.56	-0.02	-40.86	0.0	55.33	65.04	-5.56	0.0	-1333.56	4787.81
		4787.81	-2056.39	6.04e-03	0.0	130.0	55.33	24.18	-5.56	0.0	-2056.39	1.059e+04
70	8	1.697e+04	2056.39	-0.06	-40.86	0.0	-55.33	107.35	5.56	0.0	1333.56	5665.49
		5665.49	1333.56	-6.04e-03	0.0	130.0	-55.33	66.49	5.56	0.0	2056.39	1.697e+04
70	26	1.282e+04	8835.27	-0.03	-40.86	0.0	16.60	79.85	48.63	0.0	2513.77	5095.00
		5095.00	2513.77	-0.02	0.0	130.0	16.60	38.99	48.63	0.0	8835.27	1.282e+04
70	27	1.473e+04	-2513.77	-0.04	-40.86	0.0	-16.60	92.54	-48.63	0.0	-2513.77	5358.30
		5358.30	-8835.27	0.02	0.0	130.0	-16.60	51.68	-48.63	0.0	-8835.27	1.473e+04
70	33	1.268e+04	-465.85	-0.03	-40.86	0.0	19.07	78.90	-1.21	0.0	-465.85	5075.40
		5075.40	-623.15	2.74e-03	0.0	130.0	19.07	38.04	-1.21	0.0	-623.15	1.268e+04
70	35	1.488e+04	-99.42	-0.05	-40.86	0.0	-19.07	93.49	-6.92	0.0	-99.42	5377.90
		5377.90	-998.91	2.77e-03	0.0	130.0	-19.07	52.63	-6.92	0.0	-998.91	1.488e+04
70	58	1.345e+04	3422.10	-0.04	-40.86	0.0	5.72	84.01	18.77	0.0	982.59	5181.27
		5181.27	982.59	-7.92e-03	0.0	130.0	5.72	43.15	18.77	0.0	3422.10	1.345e+04
70	59	1.411e+04	-982.59	-0.04	-40.86	0.0	-5.72	88.38	-18.77	0.0	-982.59	5272.02
		5272.02	-3422.10	7.92e-03	0.0	130.0	-5.72	47.52	-18.77	0.0	-3422.10	1.411e+04
71	1	0.0	0.0	0.10	-49.44	0.0	3.88	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.06	0.0	110.0	3.88	-49.44	-21.29	0.0	-2342.07	-2719.21
71	3	0.0	2342.07	0.10	-49.44	0.0	3.88	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.07	0.0	110.0	3.88	-49.44	21.29	0.0	2342.07	-2719.21
71	17	0.0	0.0	0.25	-49.44	0.0	12.94	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-4.83e-03	0.0	110.0	12.94	-49.44	-6.39	0.0	-702.62	-2719.21
71	25	0.0	0.0	0.25	-49.44	0.0	15.56	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.02	0.0	110.0	15.56	-49.44	-6.39	0.0	-702.62	-2719.21
71	26	0.0	0.0	-0.17	-49.44	0.0	-15.56	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.06	0.0	110.0	-15.56	-49.44	-6.39	0.0	-702.62	-2719.21
71	37	0.0	0.0	0.06	-49.44	0.0	1.81	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.81	-49.44	-7.34	0.0	-807.20	-2719.21
71	40	0.0	807.20	0.02	-49.44	0.0	-1.81	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-1.81	-49.44	7.34	0.0	807.20	-2719.21
71	49	0.0	0.0	0.12	-49.44	0.0	5.02	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-2.71e-03	0.0	110.0	5.02	-49.44	-2.20	0.0	-242.16	-2719.21
71	56	0.0	130.52	-0.04	-49.44	0.0	-5.02	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	5.87e-03	0.0	110.0	-5.02	-49.44	1.19	0.0	130.52	-2719.21
71	57	0.0	0.0	0.12	-49.44	0.0	6.04	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-8.25e-03	0.0	110.0	6.04	-49.44	-2.20	0.0	-242.16	-2719.21
71	58	0.0	0.0	-0.04	-49.44	0.0	-6.04	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	-6.04	-49.44	-2.20	0.0	-242.16	-2719.21
72	1	0.0	0.0	0.10	-49.44	0.0	5.06	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	5.06	-49.44	-21.29	0.0	-2342.07	-2719.21
72	3	0.0	2342.07	0.10	-49.44	0.0	5.06	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	5.06	-49.44	21.29	0.0	2342.07	-2719.21
72	17	0.0	0.0	0.25	-49.44	0.0	16.86	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.03	0.0	110.0	16.86	-49.44	-6.39	0.0	-702.62	-2719.21
72	18	0.0	0.0	-0.17	-49.44	0.0	-16.86	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	-16.86	-49.44	-6.39	0.0	-702.62	-2719.21
72	25	0.0	0.0	0.25	-49.44	0.0	11.63	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	11.63	-49.44	-6.39	0.0	-702.62	-2719.21
72	33	0.0	0.0	0.06	-49.44	0.0	1.96	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.96	-49.44	-7.34	0.0	-807.20	-2719.21
72	35	0.0	807.20	0.06	-49.44	0.0	1.96	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.96	-49.44	7.34	0.0	807.20	-2719.21
72	49	0.0	0.0	0.12	-49.44	0.0	6.55	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	9.93e-03	0.0	110.0	6.55	-49.44	-2.20	0.0	-242.16	-2719.21
72	50	0.0	0.0	-0.04	-49.44	0.0	-6.55	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	3.65e-03	0.0	110.0	-6.55	-49.44	-2.20	0.0	-242.16	-2719.21
72	56	0.0	130.52	-0.04	-49.44	0.0	-6.55	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-6.78e-03	0.0	110.0	-6.55	-49.44	1.19	0.0	130.52	-2719.21
73	1	0.0	0.0	0.09	-27.99	0.0	3.13	0.0	-12.05	0.0	0.0	0.0
		-1539.46	-1325.95	-0.01	0.0	110.0	3.13	-27.99	-12.05	0.0	-1325.95	-1539.46
73	3	0.0	1325.95	0.09	-27.99	0.0	3.13	0.0	12.05	0.0	0.0	0.0

		-1539.46	0.0	-0.09	0.0	110.0	3.13	-27.99	12.05	0.0	1325.95	-1539.46
73	17	0.0	0.0	0.23	-27.99	0.0	10.44	0.0	-3.62	0.0	0.0	0.0
		-1539.46	-397.78	-0.16	0.0	110.0	10.44	-27.99	-3.62	0.0	-397.78	-1539.46
73	18	0.0	0.0	-0.19	-27.99	0.0	-10.44	0.0	-3.62	0.0	0.0	0.0
		-1539.46	-397.78	0.18	0.0	110.0	-10.44	-27.99	-3.62	0.0	-397.78	-1539.46
73	20	0.0	397.78	-0.19	-27.99	0.0	-10.44	0.0	3.62	0.0	0.0	0.0
		-1539.46	0.0	0.16	0.0	110.0	-10.44	-27.99	3.62	0.0	397.78	-1539.46
73	25	0.0	0.0	0.23	-27.99	0.0	5.70	0.0	-3.62	0.0	0.0	0.0
		-1539.46	-397.78	-0.09	0.0	110.0	5.70	-27.99	-3.62	0.0	-397.78	-1539.46
73	33	0.0	0.0	0.05	-27.99	0.0	1.22	0.0	-4.15	0.0	0.0	0.0
		-1539.46	-456.99	-6.45e-03	0.0	110.0	1.22	-27.99	-4.15	0.0	-456.99	-1539.46
73	36	0.0	456.99	-3.19e-03	-27.99	0.0	-1.22	0.0	4.15	0.0	0.0	0.0
		-1539.46	0.0	6.45e-03	0.0	110.0	-1.22	-27.99	4.15	0.0	456.99	-1539.46
73	49	0.0	0.0	0.10	-27.99	0.0	4.05	0.0	-1.25	0.0	0.0	0.0
		-1539.46	-137.10	-0.06	0.0	110.0	4.05	-27.99	-1.25	0.0	-137.10	-1539.46
73	50	0.0	0.0	-0.06	-27.99	0.0	-4.05	0.0	-1.25	0.0	0.0	0.0
		-1539.46	-137.10	0.07	0.0	110.0	-4.05	-27.99	-1.25	0.0	-137.10	-1539.46
73	56	0.0	73.89	-0.06	-27.99	0.0	-4.05	0.0	0.67	0.0	0.0	0.0
		-1539.46	0.0	0.06	0.0	110.0	-4.05	-27.99	0.67	0.0	73.89	-1539.46
74	9	0.0	0.0	0.03	-49.44	0.0	-3.88	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.07	0.0	110.0	-3.88	0.0	21.29	0.0	0.0	0.0
74	11	0.0	2342.07	0.03	-49.44	0.0	-3.88	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.06	0.0	110.0	-3.88	0.0	-21.29	0.0	0.0	0.0
74	25	0.0	0.0	0.17	-49.44	0.0	-15.56	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.05	0.0	110.0	-15.56	0.0	3.44	0.0	0.0	0.0
74	26	0.0	0.0	-0.25	-49.44	0.0	15.56	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.03	0.0	110.0	15.56	0.0	3.44	0.0	0.0	0.0
74	46	0.0	0.0	-0.06	-49.44	0.0	1.81	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	1.81	0.0	7.34	0.0	0.0	0.0
74	47	0.0	807.20	-0.01	-49.44	0.0	-1.81	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.81	0.0	-7.34	0.0	0.0	0.0
74	49	0.0	0.0	0.04	-49.44	0.0	-5.02	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	-5.02	0.0	1.19	0.0	0.0	0.0
74	50	0.0	0.0	-0.12	-49.44	0.0	5.02	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.87e-03	0.0	110.0	5.02	0.0	1.19	0.0	0.0	0.0
74	57	0.0	0.0	0.04	-49.44	0.0	-6.04	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	-6.04	0.0	1.19	0.0	0.0	0.0
74	58	0.0	0.0	-0.12	-49.44	0.0	6.04	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.01	0.0	110.0	6.04	0.0	1.19	0.0	0.0	0.0
75	1	1.059e+04	-113.38	0.04	-40.86	0.0	147.95	-74.70	19.31	0.0	-2624.20	1.059e+04
		-1779.59	-2624.20	-4.51e-03	0.0	130.0	147.95	-115.56	19.31	0.0	-113.38	-1779.59
75	3	1.697e+04	-1197.60	0.04	-40.86	0.0	-147.95	-32.39	2.75	0.0	-1554.99	1.697e+04
		1.010e+04	-1554.99	-4.50e-03	0.0	130.0	-147.95	-73.25	2.75	0.0	-1197.60	1.010e+04
75	25	1.282e+04	-2883.32	0.04	-40.86	0.0	44.38	-59.89	45.76	0.0	-8832.12	1.282e+04
		2377.62	-8832.12	-0.03	0.0	130.0	44.38	-100.75	45.76	0.0	-2883.32	2377.62
75	28	1.473e+04	8832.12	0.04	-40.86	0.0	-44.38	-47.20	-45.76	0.0	8832.12	1.473e+04
		5940.95	2883.32	0.03	0.0	130.0	-44.38	-88.06	-45.76	0.0	2883.32	5940.95
75	33	1.268e+04	-67.57	0.04	-40.86	0.0	50.99	-60.84	7.14	0.0	-995.28	1.268e+04
		2112.43	-995.28	-1.75e-03	0.0	130.0	50.99	-101.70	7.14	0.0	-67.57	2112.43
75	35	1.488e+04	-441.26	0.04	-40.86	0.0	-50.99	-46.25	1.43	0.0	-626.78	1.488e+04
		6206.14	-626.78	-1.75e-03	0.0	130.0	-50.99	-87.12	1.43	0.0	-441.26	6206.14
75	57	1.345e+04	-1126.16	0.04	-40.86	0.0	15.30	-55.73	17.65	0.0	-3421.01	1.345e+04
		3545.23	-3421.01	-0.01	0.0	130.0	15.30	-96.59	17.65	0.0	-1126.16	3545.23
75	60	1.411e+04	3421.01	0.04	-40.86	0.0	-15.30	-51.36	-17.65	0.0	3421.01	1.411e+04
		4773.34	1126.16	0.01	0.0	130.0	-15.30	-92.22	-17.65	0.0	1126.16	4773.34
76	1	0.0	0.0	0.10	-49.44	0.0	3.96	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	3.96	-49.44	-21.29	0.0	-2342.07	-2719.21
76	3	0.0	2342.07	0.10	-49.44	0.0	3.96	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	3.96	-49.44	21.29	0.0	2342.07	-2719.21
76	24	0.0	378.70	-0.17	-49.44	0.0	-13.20	0.0	3.44	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-13.20	-49.44	3.44	0.0	378.70	-2719.21
76	25	0.0	0.0	0.25	-49.44	0.0	15.29	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	15.29	-49.44	-6.39	0.0	-702.62	-2719.21
76	26	0.0	0.0	-0.17	-49.44	0.0	-15.29	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	-15.29	-49.44	-6.39	0.0	-702.62	-2719.21
76	33	0.0	0.0	0.06	-49.44	0.0	1.54	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.54	-49.44	-7.34	0.0	-807.20	-2719.21
76	35	0.0	807.20	0.06	-49.44	0.0	1.54	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.54	-49.44	7.34	0.0	807.20	-2719.21
76	49	0.0	0.0	0.12	-49.44	0.0	5.12	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	8.92e-03	0.0	110.0	5.12	-49.44	-2.20	0.0	-242.16	-2719.21
76	55	0.0	130.52	0.12	-49.44	0.0	5.12	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-1.50e-03	0.0	110.0	5.12	-49.44	1.19	0.0	130.52	-2719.21
76	57	0.0	0.0	0.12	-49.44	0.0	5.94	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	4.71e-03	0.0	110.0	5.94	-49.44	-2.20	0.0	-242.16	-2719.21
76	58	0.0	0.0	-0.04	-49.44	0.0	-5.94	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	8.69e-03	0.0	110.0	-5.94	-49.44	-2.20	0.0	-242.16	-2719.21

78	9	0.0	0.0	0.03	-49.44	0.0	-5.06	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-5.06	0.0	21.29	0.0	0.0	0.0
78	11	0.0	2342.07	0.03	-49.44	0.0	-5.06	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-5.06	0.0	-21.29	0.0	0.0	0.0
78	17	0.0	0.0	0.17	-49.44	0.0	-16.86	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-1.70e-03	0.0	110.0	-16.86	0.0	3.44	0.0	0.0	0.0
78	18	0.0	0.0	-0.25	-49.44	0.0	16.86	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.02	0.0	110.0	16.86	0.0	3.44	0.0	0.0	0.0
78	26	0.0	0.0	-0.25	-49.44	0.0	11.63	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-9.62e-03	0.0	110.0	11.63	0.0	3.44	0.0	0.0	0.0
78	41	0.0	0.0	-0.01	-49.44	0.0	-1.96	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.96	0.0	7.34	0.0	0.0	0.0
78	43	0.0	807.20	-0.01	-49.44	0.0	-1.96	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.96	0.0	-7.34	0.0	0.0	0.0
78	49	0.0	0.0	0.04	-49.44	0.0	-6.55	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.94e-04	0.0	110.0	-6.55	0.0	1.19	0.0	0.0	0.0
78	50	0.0	0.0	-0.12	-49.44	0.0	6.55	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-6.78e-03	0.0	110.0	6.55	0.0	1.19	0.0	0.0	0.0
79	9	0.0	0.0	0.03	-49.44	0.0	-3.96	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-3.96	0.0	21.29	0.0	0.0	0.0
79	11	0.0	2342.07	0.03	-49.44	0.0	-3.96	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-3.96	0.0	-21.29	0.0	0.0	0.0
79	17	0.0	0.0	0.17	-49.44	0.0	-13.20	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-4.30e-03	0.0	110.0	-13.20	0.0	3.44	0.0	0.0	0.0
79	25	0.0	0.0	0.17	-49.44	0.0	-15.29	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.02	0.0	110.0	-15.29	0.0	3.44	0.0	0.0	0.0
79	26	0.0	0.0	-0.25	-49.44	0.0	15.29	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-4.88e-03	0.0	110.0	15.29	0.0	3.44	0.0	0.0	0.0
79	41	0.0	0.0	-0.01	-49.44	0.0	-1.54	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.54	0.0	7.34	0.0	0.0	0.0
79	43	0.0	807.20	-0.01	-49.44	0.0	-1.54	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.54	0.0	-7.34	0.0	0.0	0.0
79	50	0.0	0.0	-0.12	-49.44	0.0	5.12	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-5.77e-03	0.0	110.0	5.12	0.0	1.19	0.0	0.0	0.0
79	54	0.0	0.0	-0.12	-49.44	0.0	5.12	49.44	2.20	0.0	-242.16	-2719.21
		-2719.21	-242.16	-8.92e-03	0.0	110.0	5.12	0.0	2.20	0.0	0.0	0.0
79	57	0.0	0.0	0.04	-49.44	0.0	-5.94	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-5.54e-03	0.0	110.0	-5.94	0.0	1.19	0.0	0.0	0.0
79	58	0.0	0.0	-0.12	-49.44	0.0	5.94	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-1.45e-03	0.0	110.0	5.94	0.0	1.19	0.0	0.0	0.0
80	1	-1779.59	4170.86	0.02	-40.86	0.0	240.56	-214.44	41.26	0.0	-1193.12	-1779.59
		-3.231e+04	-1193.12	-5.90e-03	0.0	130.0	240.56	-255.30	41.26	0.0	4170.86	-3.231e+04
80	3	1.010e+04	3092.67	0.10	-40.86	0.0	-240.56	-172.13	24.70	0.0	-117.86	1.010e+04
		-1.494e+04	-117.86	-5.85e-03	0.0	130.0	-240.56	-212.99	24.70	0.0	3092.67	-1.494e+04
80	25	2377.62	1.417e+04	0.04	-40.86	0.0	72.17	-199.63	133.70	0.0	-3207.24	2377.62
		-2.623e+04	-3207.24	-0.04	0.0	130.0	72.17	-240.49	133.70	0.0	1.417e+04	-2.623e+04
80	28	5940.95	3207.24	0.07	-40.86	0.0	-72.17	-186.94	-133.70	0.0	3207.24	5940.95
		-2.102e+04	-1.417e+04	0.04	0.0	130.0	-72.17	-227.80	-133.70	0.0	-1.417e+04	-2.102e+04
80	33	2112.43	1595.39	0.04	-40.86	0.0	82.91	-200.58	15.65	0.0	-439.71	2112.43
		-2.662e+04	-439.71	-2.29e-03	0.0	130.0	82.91	-241.44	15.65	0.0	1595.39	-2.662e+04
80	35	6206.14	1223.79	0.07	-40.86	0.0	-82.91	-186.00	9.95	0.0	-69.12	6206.14
		-2.063e+04	-69.12	-2.27e-03	0.0	130.0	-82.91	-226.86	9.95	0.0	1223.79	-2.063e+04
80	57	3545.23	5494.16	0.05	-40.86	0.0	24.87	-195.47	51.78	0.0	-1237.81	3545.23
		-2.452e+04	-1237.81	-0.01	0.0	130.0	24.87	-236.33	51.78	0.0	5494.16	-2.452e+04
80	60	4773.34	1237.81	0.06	-40.86	0.0	-24.87	-191.10	-51.78	0.0	1237.81	4773.34
		-2.273e+04	-5494.16	0.01	0.0	130.0	-24.87	-231.96	-51.78	0.0	-5494.16	-2.273e+04
81	1	0.0	0.0	0.10	-49.44	0.0	4.04	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	4.04	-49.44	-21.29	0.0	-2342.07	-2719.21
81	3	0.0	2342.07	0.10	-49.44	0.0	4.04	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.05	0.0	110.0	4.04	-49.44	21.29	0.0	2342.07	-2719.21
81	18	0.0	0.0	-0.17	-49.44	0.0	-13.46	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.02	0.0	110.0	-13.46	-49.44	-6.39	0.0	-702.62	-2719.21
81	25	0.0	0.0	0.25	-49.44	0.0	15.03	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.05	0.0	110.0	15.03	-49.44	-6.39	0.0	-702.62	-2719.21
81	26	0.0	0.0	-0.17	-49.44	0.0	-15.03	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-9.92e-03	0.0	110.0	-15.03	-49.44	-6.39	0.0	-702.62	-2719.21
81	33	0.0	0.0	0.06	-49.44	0.0	1.57	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.03	0.0	110.0	1.57	-49.44	-7.34	0.0	-807.20	-2719.21
81	35	0.0	807.20	0.06	-49.44	0.0	1.57	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.57	-49.44	7.34	0.0	807.20	-2719.21
81	49	0.0	0.0	0.12	-49.44	0.0	5.23	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	5.23	-49.44	-2.20	0.0	-242.16	-2719.21
81	56	0.0	130.52	-0.04	-49.44	0.0	-5.23	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-5.23	-49.44	1.19	0.0	130.52	-2719.21
81	57	0.0	0.0	0.12	-49.44	0.0	5.83	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	5.83	-49.44	-2.20	0.0	-242.16	-2719.21
81	58	0.0	0.0	-0.04	-49.44	0.0	-5.83	0.0	-2.20	0.0	0.0	0.0

		-2719.21	-242.16	-4.69e-03	0.0	110.0	-5.83	-49.44	-2.20	0.0	-242.16	-2719.21
82	1	1.005e+04	-1396.16	-0.02	-40.86	0.0	-53.84	80.76	-4.99	0.0	-1396.16	2208.93
		2208.93	-2044.73	0.01	0.0	130.0	-53.84	39.90	-4.99	0.0	-2044.73	1.005e+04
82	3	1.179e+04	-331.54	-0.02	-40.86	0.0	53.84	69.65	-21.89	0.0	-331.54	5387.45
		5387.45	-3176.94	0.01	0.0	130.0	53.84	28.79	-21.89	0.0	-3176.94	1.179e+04
82	18	1.066e+04	8872.61	-0.02	-40.86	0.0	-16.15	76.87	47.33	0.0	2719.80	3321.41
		3321.41	2719.80	-0.03	0.0	130.0	-16.15	36.01	47.33	0.0	8872.61	1.066e+04
82	19	1.118e+04	-2719.80	-0.02	-40.86	0.0	16.15	73.54	-47.33	0.0	-2719.80	4274.97
		4274.97	-8872.61	0.03	0.0	130.0	16.15	32.68	-47.33	0.0	-8872.61	1.118e+04
82	33	1.062e+04	-518.75	-0.02	-40.86	0.0	-18.56	77.12	-2.30	0.0	-518.75	3250.45
		3250.45	-818.23	3.94e-03	0.0	130.0	-18.56	36.26	-2.30	0.0	-818.23	1.062e+04
82	35	1.122e+04	-151.82	-0.02	-40.86	0.0	18.56	73.29	-8.13	0.0	-151.82	4345.94
		4345.94	-1208.45	4.01e-03	0.0	130.0	18.56	32.43	-8.13	0.0	-1208.45	1.122e+04
82	50	1.083e+04	3436.32	-0.02	-40.86	0.0	-5.57	75.78	18.26	0.0	1062.57	3633.87
		3633.87	1062.57	-0.01	0.0	130.0	-5.57	34.92	18.26	0.0	3436.32	1.083e+04
82	51	1.101e+04	-1062.57	-0.02	-40.86	0.0	5.57	74.63	-18.26	0.0	-1062.57	3962.51
		3962.51	-3436.32	0.01	0.0	130.0	5.57	33.77	-18.26	0.0	-3436.32	1.101e+04
83	1	0.0	0.0	0.10	-49.44	0.0	5.14	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.06	0.0	110.0	5.14	-49.44	-21.29	0.0	-2342.07	-2719.21
83	3	0.0	2342.07	0.10	-49.44	0.0	5.14	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.07	0.0	110.0	5.14	-49.44	21.29	0.0	2342.07	-2719.21
83	17	0.0	0.0	0.25	-49.44	0.0	17.13	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-4.94e-03	0.0	110.0	17.13	-49.44	-6.39	0.0	-702.62	-2719.21
83	18	0.0	0.0	-0.17	-49.44	0.0	-17.13	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	-17.13	-49.44	-6.39	0.0	-702.62	-2719.21
83	26	0.0	0.0	-0.17	-49.44	0.0	-11.37	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	-11.37	-49.44	-6.39	0.0	-702.62	-2719.21
83	33	0.0	0.0	0.06	-49.44	0.0	1.99	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.99	-49.44	-7.34	0.0	-807.20	-2719.21
83	35	0.0	807.20	0.06	-49.44	0.0	1.99	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.03	0.0	110.0	1.99	-49.44	7.34	0.0	807.20	-2719.21
83	49	0.0	0.0	0.12	-49.44	0.0	6.65	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-2.76e-03	0.0	110.0	6.65	-49.44	-2.20	0.0	-242.16	-2719.21
83	50	0.0	0.0	-0.04	-49.44	0.0	-6.65	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	-6.65	-49.44	-2.20	0.0	-242.16	-2719.21
83	56	0.0	130.52	-0.04	-49.44	0.0	-6.65	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	5.95e-03	0.0	110.0	-6.65	-49.44	1.19	0.0	130.52	-2719.21
84	9	0.0	0.0	0.03	-49.44	0.0	-4.04	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.05	0.0	110.0	-4.04	0.0	21.29	0.0	0.0	0.0
84	11	0.0	2342.07	0.03	-49.44	0.0	-4.04	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-4.04	0.0	-21.29	0.0	0.0	0.0
84	25	0.0	0.0	0.17	-49.44	0.0	-15.03	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.02	0.0	110.0	-15.03	0.0	3.44	0.0	0.0	0.0
84	26	0.0	0.0	-0.25	-49.44	0.0	15.03	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.04	0.0	110.0	15.03	0.0	3.44	0.0	0.0	0.0
84	45	0.0	0.0	-0.01	-49.44	0.0	-1.75	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.75	0.0	7.34	0.0	0.0	0.0
84	48	0.0	807.20	-0.06	-49.44	0.0	1.75	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	1.75	0.0	-7.34	0.0	0.0	0.0
84	49	0.0	0.0	0.04	-49.44	0.0	-5.23	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	9.83e-03	0.0	110.0	-5.23	0.0	1.19	0.0	0.0	0.0
84	50	0.0	0.0	-0.12	-49.44	0.0	5.23	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	5.23	0.0	1.19	0.0	0.0	0.0
84	57	0.0	0.0	0.04	-49.44	0.0	-5.83	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	7.84e-03	0.0	110.0	-5.83	0.0	1.19	0.0	0.0	0.0
84	58	0.0	0.0	-0.12	-49.44	0.0	5.83	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	5.83	0.0	1.19	0.0	0.0	0.0
85	1	5404.72	3092.15	-0.14	-40.86	0.0	57.13	310.57	-25.82	0.0	3092.15	-3.231e+04
		-3.231e+04	-264.43	9.77e-03	0.0	130.0	57.13	269.70	-25.82	0.0	-264.43	5404.72
85	5	5404.72	3662.48	-0.14	-40.86	0.0	57.13	310.57	-30.02	0.0	3662.48	-3.231e+04
		-3.231e+04	-240.03	7.22e-03	0.0	130.0	57.13	269.70	-30.02	0.0	-240.03	5404.72
85	8	2201.21	240.03	0.04	-40.86	0.0	-57.13	152.25	30.02	0.0	-3662.48	-1.494e+04
		-1.494e+04	-3662.48	-7.22e-03	0.0	130.0	-57.13	111.39	30.02	0.0	240.03	2201.21
85	26	4283.50	2760.09	-0.07	-40.86	0.0	17.14	255.15	130.24	0.0	-1.417e+04	-2.623e+04
		-2.623e+04	-1.417e+04	-0.02	0.0	130.0	17.14	214.29	130.24	0.0	2760.09	4283.50
85	27	3322.44	1.417e+04	-0.02	-40.86	0.0	-17.14	207.66	-130.24	0.0	1.417e+04	-2.102e+04
		-2.102e+04	-2760.09	0.02	0.0	130.0	-17.14	166.80	-130.24	0.0	-2760.09	3322.44
85	33	4355.02	1223.64	-0.08	-40.86	0.0	19.69	258.69	-10.38	0.0	1223.64	-2.662e+04
		-2.662e+04	-126.08	3.79e-03	0.0	130.0	19.69	217.83	-10.38	0.0	-126.08	4355.02
85	35	3250.92	1596.14	-0.02	-40.86	0.0	-19.69	204.12	-16.11	0.0	1596.14	-2.063e+04
		-2.063e+04	-497.93	3.79e-03	0.0	130.0	-19.69	163.26	-16.11	0.0	-497.93	3250.92
85	58	3968.58	1064.23	-0.06	-40.86	0.0	5.91	239.59	50.44	0.0	-5493.38	-2.452e+04
		-2.452e+04	-5493.38	-9.33e-03	0.0	130.0	5.91	198.73	50.44	0.0	1064.23	3968.58
85	59	3637.35	5493.38	-0.04	-40.86	0.0	-5.91	223.22	-50.44	0.0	5493.38	-2.273e+04
		-2.273e+04	-1064.23	9.33e-03	0.0	130.0	-5.91	182.36	-50.44	0.0	-1064.23	3637.35
86	1	0.0	0.0	0.10	-49.44	0.0	4.12	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	4.12	-49.44	-21.29	0.0	-2342.07	-2719.21

86	3	0.0	2342.07	0.10	-49.44	0.0	4.12	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	4.12	-49.44	21.29	0.0	2342.07	-2719.21
86	18	0.0	0.0	-0.17	-49.44	0.0	-13.73	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	-13.73	-49.44	-6.39	0.0	-702.62	-2719.21
86	25	0.0	0.0	0.25	-49.44	0.0	14.77	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	14.77	-49.44	-6.39	0.0	-702.62	-2719.21
86	26	0.0	0.0	-0.17	-49.44	0.0	-14.77	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	-14.77	-49.44	-6.39	0.0	-702.62	-2719.21
86	33	0.0	0.0	0.06	-49.44	0.0	1.60	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.60	-49.44	-7.34	0.0	-807.20	-2719.21
86	35	0.0	807.20	0.06	-49.44	0.0	1.60	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.60	-49.44	7.34	0.0	807.20	-2719.21
86	43	0.0	435.07	0.06	-49.44	0.0	1.60	0.0	3.96	0.0	0.0	0.0
		-2719.21	0.0	-0.01	0.0	110.0	1.60	-49.44	3.96	0.0	435.07	-2719.21
86	49	0.0	0.0	0.12	-49.44	0.0	5.33	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	7.95e-03	0.0	110.0	5.33	-49.44	-2.20	0.0	-242.16	-2719.21
86	57	0.0	0.0	0.12	-49.44	0.0	5.73	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	5.41e-03	0.0	110.0	5.73	-49.44	-2.20	0.0	-242.16	-2719.21
86	58	0.0	0.0	-0.04	-49.44	0.0	-5.73	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	7.92e-03	0.0	110.0	-5.73	-49.44	-2.20	0.0	-242.16	-2719.21
88	10	0.0	0.0	-0.09	-27.99	0.0	3.13	27.99	12.05	0.0	-1325.95	-1539.46
		-1539.46	-1325.95	0.01	0.0	110.0	3.13	0.0	12.05	0.0	0.0	0.0
88	11	0.0	1325.95	0.04	-27.99	0.0	-3.13	27.99	-12.05	0.0	1325.95	-1539.46
		-1539.46	0.0	-0.01	0.0	110.0	-3.13	0.0	-12.05	0.0	0.0	0.0
88	17	0.0	0.0	0.19	-27.99	0.0	-10.44	27.99	1.95	0.0	-214.40	-1539.46
		-1539.46	-214.40	-0.18	0.0	110.0	-10.44	0.0	1.95	0.0	0.0	0.0
88	18	0.0	0.0	-0.23	-27.99	0.0	10.44	27.99	1.95	0.0	-214.40	-1539.46
		-1539.46	-214.40	0.17	0.0	110.0	10.44	0.0	1.95	0.0	0.0	0.0
88	26	0.0	0.0	-0.23	-27.99	0.0	5.70	27.99	1.95	0.0	-214.40	-1539.46
		-1539.46	-214.40	0.10	0.0	110.0	5.70	0.0	1.95	0.0	0.0	0.0
88	46	0.0	0.0	-0.05	-27.99	0.0	0.66	27.99	4.15	0.0	-456.99	-1539.46
		-1539.46	-456.99	1.77e-03	0.0	110.0	0.66	0.0	4.15	0.0	0.0	0.0
88	47	0.0	456.99	4.76e-03	-27.99	0.0	-0.66	27.99	-4.15	0.0	456.99	-1539.46
		-1539.46	0.0	-1.77e-03	0.0	110.0	-0.66	0.0	-4.15	0.0	0.0	0.0
88	49	0.0	0.0	0.06	-27.99	0.0	-4.05	27.99	0.67	0.0	-73.89	-1539.46
		-1539.46	-73.89	-0.07	0.0	110.0	-4.05	0.0	0.67	0.0	0.0	0.0
88	50	0.0	0.0	-0.10	-27.99	0.0	4.05	27.99	0.67	0.0	-73.89	-1539.46
		-1539.46	-73.89	0.06	0.0	110.0	4.05	0.0	0.67	0.0	0.0	0.0
89	1	0.0	0.0	0.03	-49.44	0.0	-4.12	49.44	11.48	0.0	-1262.33	-2719.21
		-2719.21	-1262.33	-0.03	0.0	110.0	-4.12	0.0	11.48	0.0	0.0	0.0
89	9	0.0	0.0	0.03	-49.44	0.0	-4.12	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-4.12	0.0	21.29	0.0	0.0	0.0
89	11	0.0	2342.07	0.03	-49.44	0.0	-4.12	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-4.12	0.0	-21.29	0.0	0.0	0.0
89	18	0.0	0.0	-0.25	-49.44	0.0	13.73	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	13.73	0.0	3.44	0.0	0.0	0.0
89	25	0.0	0.0	0.17	-49.44	0.0	-14.77	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	-14.77	0.0	3.44	0.0	0.0	0.0
89	26	0.0	0.0	-0.25	-49.44	0.0	14.77	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-6.86e-03	0.0	110.0	14.77	0.0	3.44	0.0	0.0	0.0
89	41	0.0	0.0	-0.01	-49.44	0.0	-1.60	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.60	0.0	7.34	0.0	0.0	0.0
89	43	0.0	807.20	-0.01	-49.44	0.0	-1.60	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.60	0.0	-7.34	0.0	0.0	0.0
89	50	0.0	0.0	-0.12	-49.44	0.0	5.33	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-4.80e-03	0.0	110.0	5.33	0.0	1.19	0.0	0.0	0.0
89	57	0.0	0.0	0.04	-49.44	0.0	-5.73	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-4.77e-03	0.0	110.0	-5.73	0.0	1.19	0.0	0.0	0.0
89	58	0.0	0.0	-0.12	-49.44	0.0	5.73	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-2.22e-03	0.0	110.0	5.73	0.0	1.19	0.0	0.0	0.0
90	1	2.496e+04	-1344.17	-0.12	-40.86	0.0	149.74	170.82	-2.99	0.0	-1344.17	5404.72
		5404.72	-1732.31	7.56e-03	0.0	130.0	149.74	129.96	-2.99	0.0	-1732.31	2.496e+04
90	3	2449.92	-263.57	0.04	-40.86	0.0	-149.74	12.51	-19.60	0.0	-263.57	2201.21
		1171.11	-2811.39	7.55e-03	0.0	130.0	-149.74	-28.35	-19.60	0.0	-2811.39	1171.11
90	4	2449.92	1732.31	0.04	-40.86	0.0	-149.74	12.51	2.99	0.0	1344.17	2201.21
		1171.11	1344.17	-7.56e-03	0.0	130.0	-149.74	-28.35	2.99	0.0	1732.31	1171.11
90	26	1.663e+04	8320.17	-0.06	-40.86	0.0	44.92	115.41	45.26	0.0	2436.17	4283.50
		4283.50	2436.17	-0.02	0.0	130.0	44.92	74.55	45.26	0.0	8320.17	1.663e+04
90	27	9495.79	-2436.17	-0.02	-40.86	0.0	-44.92	67.92	-45.26	0.0	-2436.17	3322.44
		3322.44	-8320.17	0.02	0.0	130.0	-44.92	27.06	-45.26	0.0	-8320.17	9495.79
90	33	1.716e+04	-498.22	-0.07	-40.86	0.0	51.61	118.95	-1.52	0.0	-498.22	4355.02
		4355.02	-695.81	2.93e-03	0.0	130.0	51.61	78.09	-1.52	0.0	-695.81	1.716e+04
90	35	8964.75	-125.79	-0.01	-40.86	0.0	-51.61	64.38	-7.25	0.0	-125.79	3250.92
		3250.92	-1067.72	2.93e-03	0.0	130.0	-51.61	23.52	-7.25	0.0	-1067.72	8964.75
90	58	1.429e+04	3222.25	-0.05	-40.86	0.0	15.48	99.85	17.46	0.0	952.59	3968.58
		3968.58	952.59	-7.28e-03	0.0	130.0	15.48	58.99	17.46	0.0	3222.25	1.429e+04
90	59	1.183e+04	-952.59	-0.03	-40.86	0.0	-15.48	83.48	-17.46	0.0	-952.59	3637.35

91	1	3637.35	-3222.25	7.28e-03	0.0	130.0	-15.48	42.62	-17.46	0.0	-3222.25	1.183e+04
		0.0	0.0	0.10	-49.44	0.0	4.20	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.06	0.0	110.0	4.20	-49.44	-21.29	0.0	-2342.07	-2719.21
91	3	0.0	2342.07	0.10	-49.44	0.0	4.20	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.07	0.0	110.0	4.20	-49.44	21.29	0.0	2342.07	-2719.21
91	18	0.0	0.0	-0.17	-49.44	0.0	-13.99	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.05	0.0	110.0	-13.99	-49.44	-6.39	0.0	-702.62	-2719.21
91	25	0.0	0.0	0.25	-49.44	0.0	14.51	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.02	0.0	110.0	14.51	-49.44	-6.39	0.0	-702.62	-2719.21
91	26	0.0	0.0	-0.17	-49.44	0.0	-14.51	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.06	0.0	110.0	-14.51	-49.44	-6.39	0.0	-702.62	-2719.21
91	37	0.0	0.0	0.06	-49.44	0.0	1.69	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.69	-49.44	-7.34	0.0	-807.20	-2719.21
91	40	0.0	807.20	0.02	-49.44	0.0	-1.69	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	-1.69	-49.44	7.34	0.0	807.20	-2719.21
91	49	0.0	0.0	0.12	-49.44	0.0	5.43	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-3.72e-03	0.0	110.0	5.43	-49.44	-2.20	0.0	-242.16	-2719.21
91	56	0.0	130.52	-0.04	-49.44	0.0	-5.43	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	6.87e-03	0.0	110.0	-5.43	-49.44	1.19	0.0	130.52	-2719.21
91	57	0.0	0.0	0.12	-49.44	0.0	5.63	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-7.55e-03	0.0	110.0	5.63	-49.44	-2.20	0.0	-242.16	-2719.21
91	58	0.0	0.0	-0.04	-49.44	0.0	-5.63	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	-5.63	-49.44	-2.20	0.0	-242.16	-2719.21
92	9	0.0	0.0	0.03	-49.44	0.0	-5.14	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.07	0.0	110.0	-5.14	0.0	21.29	0.0	0.0	0.0
92	11	0.0	2342.07	0.03	-49.44	0.0	-5.14	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.06	0.0	110.0	-5.14	0.0	-21.29	0.0	0.0	0.0
92	17	0.0	0.0	0.17	-49.44	0.0	-17.13	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	-17.13	0.0	3.44	0.0	0.0	0.0
92	18	0.0	0.0	-0.25	-49.44	0.0	17.13	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.01	0.0	110.0	17.13	0.0	3.44	0.0	0.0	0.0
92	25	0.0	0.0	0.17	-49.44	0.0	-11.37	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	-11.37	0.0	3.44	0.0	0.0	0.0
92	41	0.0	0.0	-0.01	-49.44	0.0	-1.99	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.03	0.0	110.0	-1.99	0.0	7.34	0.0	0.0	0.0
92	43	0.0	807.20	-0.01	-49.44	0.0	-1.99	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.99	0.0	-7.34	0.0	0.0	0.0
92	49	0.0	0.0	0.04	-49.44	0.0	-6.65	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	-6.65	0.0	1.19	0.0	0.0	0.0
92	50	0.0	0.0	-0.12	-49.44	0.0	6.65	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	5.95e-03	0.0	110.0	6.65	0.0	1.19	0.0	0.0	0.0
93	1	1.005e+04	-55.17	0.03	-40.86	0.0	38.78	-58.98	23.61	0.0	-3124.47	1.005e+04
		-271.53	-3124.47	-3.90e-03	0.0	130.0	38.78	-99.84	23.61	0.0	-55.17	-271.53
93	3	1.179e+04	-1224.72	0.04	-40.86	0.0	-38.78	-70.09	6.71	0.0	-2097.20	1.179e+04
		19.35	-2097.20	-4.06e-03	0.0	130.0	-38.78	-110.95	6.71	0.0	-1224.72	19.35
93	17	1.066e+04	-1957.71	0.04	-40.86	0.0	11.63	-62.87	53.07	0.0	-8856.87	1.066e+04
		-169.72	-8856.87	-0.01	0.0	130.0	11.63	-103.73	53.07	0.0	-1957.71	-169.72
93	20	1.118e+04	8856.87	0.04	-40.86	0.0	-11.63	-66.20	-53.07	0.0	8856.87	1.118e+04
		-82.46	1957.71	0.01	0.0	130.0	-11.63	-107.06	-53.07	0.0	1957.71	-82.46
93	33	1.062e+04	-46.83	0.03	-40.86	0.0	13.36	-62.62	8.80	0.0	-1190.36	1.062e+04
		-176.22	-1190.36	-1.52e-03	0.0	130.0	13.36	-103.48	8.80	0.0	-46.83	-176.22
93	35	1.122e+04	-449.93	0.04	-40.86	0.0	-13.36	-66.45	2.97	0.0	-836.31	1.122e+04
		-75.96	-836.31	-1.57e-03	0.0	130.0	-13.36	-107.31	2.97	0.0	-449.93	-75.96
93	37	1.062e+04	-9.66	0.03	-40.86	0.0	13.36	-62.62	6.73	0.0	-884.76	1.062e+04
		-176.22	-884.76	-1.98e-03	0.0	130.0	13.36	-103.48	6.73	0.0	-9.66	-176.22
93	40	1.122e+04	884.76	0.04	-40.86	0.0	-13.36	-66.45	-6.73	0.0	884.76	1.122e+04
		-75.96	9.66	1.98e-03	0.0	130.0	-13.36	-107.31	-6.73	0.0	9.66	-75.96
93	49	1.083e+04	-767.47	0.04	-40.86	0.0	4.01	-63.96	20.49	0.0	-3430.90	1.083e+04
		-141.13	-3430.90	-5.14e-03	0.0	130.0	4.01	-104.82	20.49	0.0	-767.47	-141.13
93	52	1.101e+04	3430.90	0.04	-40.86	0.0	-4.01	-65.11	-20.49	0.0	3430.90	1.101e+04
		-111.05	767.47	5.14e-03	0.0	130.0	-4.01	-105.97	-20.49	0.0	767.47	-111.05
94	9	0.0	0.0	0.03	-49.44	0.0	-4.20	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.07	0.0	110.0	-4.20	0.0	21.29	0.0	0.0	0.0
94	11	0.0	2342.07	0.03	-49.44	0.0	-4.20	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.06	0.0	110.0	-4.20	0.0	-21.29	0.0	0.0	0.0
94	17	0.0	0.0	0.17	-49.44	0.0	-13.99	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.04	0.0	110.0	-13.99	0.0	3.44	0.0	0.0	0.0
94	25	0.0	0.0	0.17	-49.44	0.0	-14.51	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.05	0.0	110.0	-14.51	0.0	3.44	0.0	0.0	0.0
94	26	0.0	0.0	-0.25	-49.44	0.0	14.51	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.03	0.0	110.0	14.51	0.0	3.44	0.0	0.0	0.0
94	33	0.0	0.0	-0.01	-49.44	0.0	-1.63	49.44	3.96	0.0	-435.07	-2719.21
		-2719.21	-435.07	-0.01	0.0	110.0	-1.63	0.0	3.96	0.0	0.0	0.0
94	46	0.0	0.0	-0.06	-49.44	0.0	1.69	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	1.69	0.0	7.34	0.0	0.0	0.0
94	47	0.0	807.20	-0.01	-49.44	0.0	-1.69	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.69	0.0	-7.34	0.0	0.0	0.0

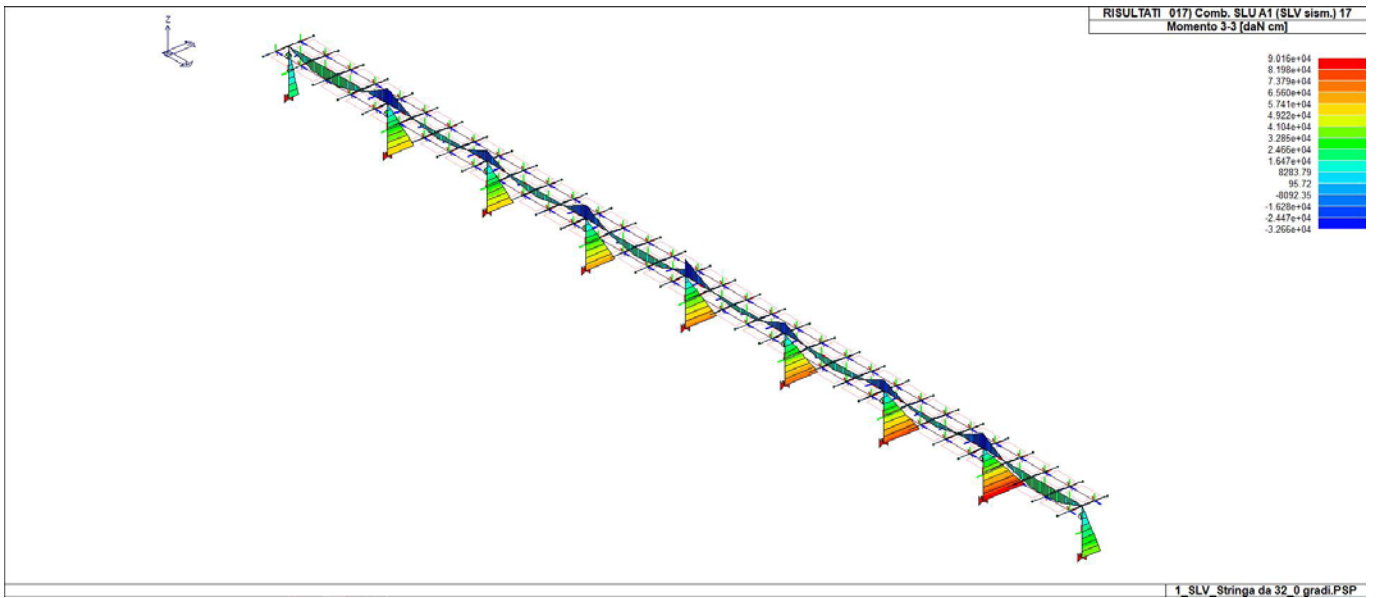
94	50	0.0	0.0	-0.12	-49.44	0.0	5.43	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	6.87e-03	0.0	110.0	5.43	0.0	1.19	0.0	0.0	0.0
94	57	0.0	0.0	0.04	-49.44	0.0	-5.63	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	-5.63	0.0	1.19	0.0	0.0	0.0
94	58	0.0	0.0	-0.12	-49.44	0.0	5.63	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.01	0.0	110.0	5.63	0.0	1.19	0.0	0.0	0.0
95	1	2.649e+04	-174.08	0.04	-40.86	0.0	242.36	31.08	20.29	0.0	-2812.05	2.496e+04
		2.496e+04	-2812.05	-5.06e-03	0.0	130.0	242.36	-9.78	20.29	0.0	-174.08	2.634e+04
95	3	1171.11	-1253.38	0.03	-40.86	0.0	-242.36	-127.23	3.68	0.0	-1731.65	1171.11
		-1.803e+04	-1731.65	-5.07e-03	0.0	130.0	-242.36	-168.10	3.68	0.0	-1253.38	-1.803e+04
95	25	1.663e+04	-2700.84	0.04	-40.86	0.0	72.71	-24.33	43.23	0.0	-8320.37	1.663e+04
		1.081e+04	-8320.37	-0.03	0.0	130.0	72.71	-65.19	43.23	0.0	-2700.84	1.081e+04
95	28	9495.79	8320.37	0.04	-40.86	0.0	-72.71	-71.82	-43.23	0.0	8320.37	9495.79
		-2497.21	2700.84	0.03	0.0	130.0	-72.71	-112.68	-43.23	0.0	2700.84	-2497.21
95	33	1.716e+04	-91.03	0.04	-40.86	0.0	83.53	-20.79	7.51	0.0	-1067.95	1.716e+04
		1.180e+04	-1067.95	-1.97e-03	0.0	130.0	83.53	-61.65	7.51	0.0	-91.03	1.180e+04
95	35	8964.75	-463.01	0.03	-40.86	0.0	-83.53	-75.36	1.79	0.0	-695.59	8964.75
		-3487.77	-695.59	-1.97e-03	0.0	130.0	-83.53	-116.22	1.79	0.0	-463.01	-3487.77
95	57	1.429e+04	-1055.31	0.04	-40.86	0.0	25.06	-39.89	16.67	0.0	-3222.32	1.429e+04
		6451.34	-3222.32	-0.01	0.0	130.0	25.06	-80.75	16.67	0.0	-1055.31	6451.34
95	60	1.183e+04	3222.32	0.04	-40.86	0.0	-25.06	-56.26	-16.67	0.0	3222.32	1.183e+04
		1864.06	1055.31	0.01	0.0	130.0	-25.06	-97.12	-16.67	0.0	1055.31	1864.06
96	1	0.0	0.0	0.10	-49.44	0.0	4.27	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	4.27	-49.44	-21.29	0.0	-2342.07	-2719.21
96	3	0.0	2342.07	0.10	-49.44	0.0	4.27	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	4.27	-49.44	21.29	0.0	2342.07	-2719.21
96	17	0.0	0.0	0.25	-49.44	0.0	14.25	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	14.25	-49.44	-6.39	0.0	-702.62	-2719.21
96	18	0.0	0.0	-0.17	-49.44	0.0	-14.25	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	-14.25	-49.44	-6.39	0.0	-702.62	-2719.21
96	25	0.0	0.0	0.25	-49.44	0.0	14.25	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.01	0.0	110.0	14.25	-49.44	-6.39	0.0	-702.62	-2719.21
96	33	0.0	0.0	0.06	-49.44	0.0	1.66	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.66	-49.44	-7.34	0.0	-807.20	-2719.21
96	35	0.0	807.20	0.06	-49.44	0.0	1.66	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.66	-49.44	7.34	0.0	807.20	-2719.21
96	49	0.0	0.0	0.12	-49.44	0.0	5.53	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	8.85e-03	0.0	110.0	5.53	-49.44	-2.20	0.0	-242.16	-2719.21
96	50	0.0	0.0	-0.04	-49.44	0.0	-5.53	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	4.57e-03	0.0	110.0	-5.53	-49.44	-2.20	0.0	-242.16	-2719.21
97	1	0.0	0.0	0.10	-49.44	0.0	5.22	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	5.22	-49.44	-21.29	0.0	-2342.07	-2719.21
97	3	0.0	2342.07	0.10	-49.44	0.0	5.22	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	5.22	-49.44	21.29	0.0	2342.07	-2719.21
97	17	0.0	0.0	0.25	-49.44	0.0	17.39	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.04	0.0	110.0	17.39	-49.44	-6.39	0.0	-702.62	-2719.21
97	18	0.0	0.0	-0.17	-49.44	0.0	-17.39	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	2.98e-03	0.0	110.0	-17.39	-49.44	-6.39	0.0	-702.62	-2719.21
97	25	0.0	0.0	0.25	-49.44	0.0	11.11	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	11.11	-49.44	-6.39	0.0	-702.62	-2719.21
97	31	0.0	378.70	0.25	-49.44	0.0	11.11	0.0	3.44	0.0	0.0	0.0
		-2719.21	0.0	-7.36e-03	0.0	110.0	11.11	-49.44	3.44	0.0	378.70	-2719.21
97	33	0.0	0.0	0.06	-49.44	0.0	2.02	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	2.02	-49.44	-7.34	0.0	-807.20	-2719.21
97	35	0.0	807.20	0.06	-49.44	0.0	2.02	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	2.02	-49.44	7.34	0.0	807.20	-2719.21
97	41	0.0	0.0	0.06	-49.44	0.0	2.02	0.0	-3.96	0.0	0.0	0.0
		-2719.21	-435.07	0.01	0.0	110.0	2.02	-49.44	-3.96	0.0	-435.07	-2719.21
97	49	0.0	0.0	0.12	-49.44	0.0	6.75	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.01	0.0	110.0	6.75	-49.44	-2.20	0.0	-242.16	-2719.21
97	50	0.0	0.0	-0.04	-49.44	0.0	-6.75	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-1.33e-03	0.0	110.0	-6.75	-49.44	-2.20	0.0	-242.16	-2719.21
98	1	2.006e+04	632.96	0.17	-40.86	0.0	225.48	-133.87	44.32	0.0	-5128.26	2.006e+04
		0.0	-5128.26	-0.05	0.0	130.0	225.48	-174.73	44.32	0.0	632.96	0.0
98	3	1.977e+04	-587.22	0.16	-40.86	0.0	-225.48	-131.65	27.68	0.0	-4185.87	1.977e+04
		0.0	-4185.87	-0.06	0.0	130.0	-225.48	-172.51	27.68	0.0	-587.22	0.0
98	11	1.977e+04	632.96	0.16	-40.86	0.0	-225.48	-131.65	44.32	0.0	-5128.26	1.977e+04
		0.0	-5128.26	-0.05	0.0	130.0	-225.48	-172.51	44.32	0.0	632.96	0.0
98	17	1.996e+04	259.26	0.17	-40.86	0.0	67.64	-133.10	122.49	0.0	-1.566e+04	1.996e+04
		0.0	-1.566e+04	-0.18	0.0	130.0	67.64	-173.96	122.49	0.0	259.26	0.0
98	20	1.987e+04	1.566e+04	0.17	-40.86	0.0	-67.64	-132.43	-122.49	0.0	1.566e+04	1.987e+04
		0.0	-259.26	0.18	0.0	130.0	-67.64	-173.29	-122.49	0.0	-259.26	0.0
98	33	1.996e+04	219.15	0.17	-40.86	0.0	77.71	-133.14	16.84	0.0	-1969.93	1.996e+04
		0.0	-1969.93	-0.02	0.0	130.0	77.71	-174.01	16.84	0.0	219.15	0.0
98	35	1.987e+04	-201.39	0.17	-40.86	0.0	-77.71	-132.38	11.11	0.0	-1645.13	1.987e+04
		0.0	-1645.13	-0.02	0.0	130.0	-77.71	-173.24	11.11	0.0	-201.39	0.0
98	43	1.987e+04	219.15	0.17	-40.86	0.0	-77.71	-132.38	16.84	0.0	-1969.93	1.987e+04

		0.0	-1969.93	-0.02	0.0	130.0	-77.71	-173.24	16.84	0.0	219.15	0.0
98	49	1.993e+04	92.67	0.17	-40.86	0.0	23.31	-132.88	47.43	0.0	-6073.83	1.993e+04
		0.0	-6073.83	-0.07	0.0	130.0	23.31	-173.74	47.43	0.0	92.67	0.0
98	52	1.990e+04	6073.83	0.17	-40.86	0.0	-23.31	-132.65	-47.43	0.0	6073.83	1.990e+04
		0.0	-92.67	0.07	0.0	130.0	-23.31	-173.51	-47.43	0.0	-92.67	0.0
99	9	0.0	0.0	0.03	-49.44	0.0	-4.27	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-4.27	0.0	21.29	0.0	0.0	0.0
99	11	0.0	2342.07	0.03	-49.44	0.0	-4.27	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-4.27	0.0	-21.29	0.0	0.0	0.0
99	17	0.0	0.0	0.17	-49.44	0.0	-14.25	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-4.48e-03	0.0	110.0	-14.25	0.0	3.44	0.0	0.0	0.0
99	18	0.0	0.0	-0.25	-49.44	0.0	14.25	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.02	0.0	110.0	14.25	0.0	3.44	0.0	0.0	0.0
99	26	0.0	0.0	-0.25	-49.44	0.0	14.25	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-4.48e-03	0.0	110.0	14.25	0.0	3.44	0.0	0.0	0.0
99	41	0.0	0.0	-0.01	-49.44	0.0	-1.66	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.66	0.0	7.34	0.0	0.0	0.0
99	43	0.0	807.20	-0.01	-49.44	0.0	-1.66	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-1.66	0.0	-7.34	0.0	0.0	0.0
99	49	0.0	0.0	0.04	-49.44	0.0	-5.53	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-1.30e-03	0.0	110.0	-5.53	0.0	1.19	0.0	0.0	0.0
99	50	0.0	0.0	-0.12	-49.44	0.0	5.53	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-5.70e-03	0.0	110.0	5.53	0.0	1.19	0.0	0.0	0.0
100	1	2.634e+04	4467.88	0.21	-40.86	0.0	334.98	-108.66	44.01	0.0	-1253.83	2.634e+04
		9559.22	-1253.83	-6.60e-03	0.0	130.0	334.98	-149.52	44.01	0.0	4467.88	9559.22
100	3	-1.803e+04	3388.38	-0.12	-40.86	0.0	-334.98	-266.98	27.40	0.0	-173.64	-1.803e+04
		-5.539e+04	-173.64	-6.53e-03	0.0	130.0	-334.98	-307.84	27.40	0.0	3388.38	-5.539e+04
100	25	1.081e+04	1.326e+04	0.10	-40.86	0.0	100.49	-164.07	125.25	0.0	-3024.76	1.081e+04
		-1.317e+04	-3024.76	-0.03	0.0	130.0	100.49	-204.93	125.25	0.0	1.326e+04	-1.317e+04
100	28	-2497.21	3024.76	0.01	-40.86	0.0	-100.49	-211.56	-125.25	0.0	3024.76	-2497.21
		-3.266e+04	-1.326e+04	0.03	0.0	130.0	-100.49	-252.43	-125.25	0.0	-1.326e+04	-3.266e+04
100	33	1.180e+04	1710.64	0.10	-40.86	0.0	115.45	-160.53	16.72	0.0	-463.16	1.180e+04
		-1.172e+04	-463.16	-2.56e-03	0.0	130.0	115.45	-201.40	16.72	0.0	1710.64	-1.172e+04
100	35	-3487.77	1338.59	0.01	-40.86	0.0	-115.45	-215.10	11.00	0.0	-90.87	-3487.77
		-3.411e+04	-90.87	-2.54e-03	0.0	130.0	-115.45	-255.96	11.00	0.0	1338.59	-3.411e+04
100	57	6451.34	5138.85	0.06	-40.86	0.0	34.64	-179.63	48.51	0.0	-1166.95	6451.34
		-1.956e+04	-1166.95	-0.01	0.0	130.0	34.64	-220.49	48.51	0.0	5138.85	-1.956e+04
100	60	1864.06	1166.95	0.03	-40.86	0.0	-34.64	-196.00	-48.51	0.0	1166.95	1864.06
		-2.627e+04	-5138.85	0.01	0.0	130.0	-34.64	-236.86	-48.51	0.0	-5138.85	-2.627e+04
101	1	0.0	0.0	0.10	-49.44	0.0	4.35	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.08	0.0	110.0	4.35	-49.44	-21.29	0.0	-2342.07	-2719.21
101	3	0.0	2342.07	0.10	-49.44	0.0	4.35	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.05	0.0	110.0	4.35	-49.44	21.29	0.0	2342.07	-2719.21
101	17	0.0	0.0	0.25	-49.44	0.0	14.51	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.06	0.0	110.0	14.51	-49.44	-6.39	0.0	-702.62	-2719.21
101	18	0.0	0.0	-0.17	-49.44	0.0	-14.51	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	-0.02	0.0	110.0	-14.51	-49.44	-6.39	0.0	-702.62	-2719.21
101	33	0.0	0.0	0.06	-49.44	0.0	1.69	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.03	0.0	110.0	1.69	-49.44	-7.34	0.0	-807.20	-2719.21
101	35	0.0	807.20	0.06	-49.44	0.0	1.69	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.69	-49.44	7.34	0.0	807.20	-2719.21
101	43	0.0	435.07	0.06	-49.44	0.0	1.69	0.0	3.96	0.0	0.0	0.0
		-2719.21	0.0	-7.69e-03	0.0	110.0	1.69	-49.44	3.96	0.0	435.07	-2719.21
101	49	0.0	0.0	0.12	-49.44	0.0	5.63	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	0.02	0.0	110.0	5.63	-49.44	-2.20	0.0	-242.16	-2719.21
101	50	0.0	0.0	-0.04	-49.44	0.0	-5.63	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	-7.55e-03	0.0	110.0	-5.63	-49.44	-2.20	0.0	-242.16	-2719.21
103	9	0.0	0.0	0.03	-49.44	0.0	-5.22	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.06	0.0	110.0	-5.22	0.0	21.29	0.0	0.0	0.0
103	11	0.0	2342.07	0.03	-49.44	0.0	-5.22	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.07	0.0	110.0	-5.22	0.0	-21.29	0.0	0.0	0.0
103	17	0.0	0.0	0.17	-49.44	0.0	-17.39	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.01	0.0	110.0	-17.39	0.0	3.44	0.0	0.0	0.0
103	18	0.0	0.0	-0.25	-49.44	0.0	17.39	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.03	0.0	110.0	17.39	0.0	3.44	0.0	0.0	0.0
103	26	0.0	0.0	-0.25	-49.44	0.0	11.11	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.01	0.0	110.0	11.11	0.0	3.44	0.0	0.0	0.0
103	30	0.0	0.0	-0.25	-49.44	0.0	11.11	49.44	6.39	0.0	-702.62	-2719.21
		-2719.21	-702.62	-0.02	0.0	110.0	11.11	0.0	6.39	0.0	0.0	0.0
103	35	0.0	435.07	-0.01	-49.44	0.0	-2.02	49.44	-3.96	0.0	435.07	-2719.21
		-2719.21	0.0	0.01	0.0	110.0	-2.02	0.0	-3.96	0.0	0.0	0.0
103	41	0.0	0.0	-0.01	-49.44	0.0	-2.02	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-2.02	0.0	7.34	0.0	0.0	0.0
103	43	0.0	807.20	-0.01	-49.44	0.0	-2.02	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	-2.02	0.0	-7.34	0.0	0.0	0.0
103	49	0.0	0.0	0.04	-49.44	0.0	-6.75	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	4.59e-03	0.0	110.0	-6.75	0.0	1.19	0.0	0.0	0.0

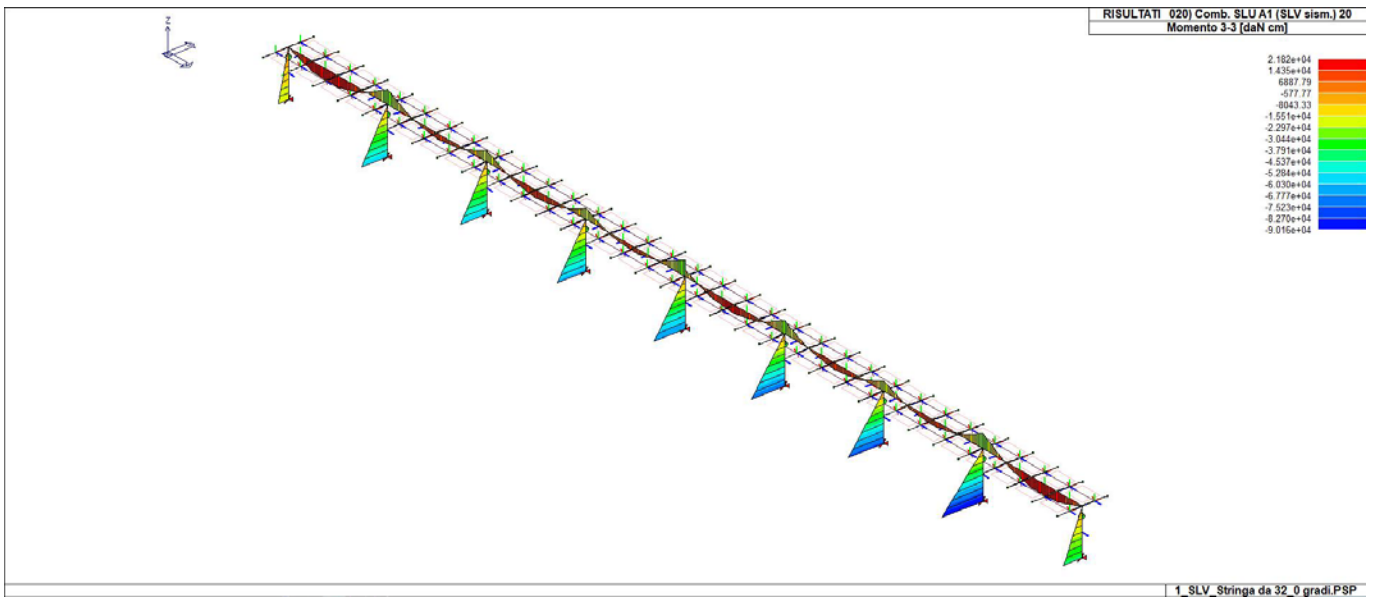
103	50	0.0	0.0	-0.12	-49.44	0.0	6.75	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.01	0.0	110.0	6.75	0.0	1.19	0.0	0.0	0.0
104	9	0.0	0.0	0.03	-49.44	0.0	-4.35	49.44	21.29	0.0	-2342.07	-2719.21
		-2719.21	-2342.07	-0.05	0.0	110.0	-4.35	0.0	21.29	0.0	0.0	0.0
104	11	0.0	2342.07	0.03	-49.44	0.0	-4.35	49.44	-21.29	0.0	2342.07	-2719.21
		-2719.21	0.0	0.08	0.0	110.0	-4.35	0.0	-21.29	0.0	0.0	0.0
104	17	0.0	0.0	0.17	-49.44	0.0	-14.51	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	0.03	0.0	110.0	-14.51	0.0	3.44	0.0	0.0	0.0
104	18	0.0	0.0	-0.25	-49.44	0.0	14.51	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.05	0.0	110.0	14.51	0.0	3.44	0.0	0.0	0.0
104	26	0.0	0.0	-0.25	-49.44	0.0	13.99	49.44	3.44	0.0	-378.70	-2719.21
		-2719.21	-378.70	-0.04	0.0	110.0	13.99	0.0	3.44	0.0	0.0	0.0
104	45	0.0	0.0	-0.01	-49.44	0.0	-1.63	49.44	7.34	0.0	-807.20	-2719.21
		-2719.21	-807.20	-0.02	0.0	110.0	-1.63	0.0	7.34	0.0	0.0	0.0
104	48	0.0	807.20	-0.06	-49.44	0.0	1.63	49.44	-7.34	0.0	807.20	-2719.21
		-2719.21	0.0	0.02	0.0	110.0	1.63	0.0	-7.34	0.0	0.0	0.0
104	49	0.0	0.0	0.04	-49.44	0.0	-5.63	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	0.01	0.0	110.0	-5.63	0.0	1.19	0.0	0.0	0.0
104	50	0.0	0.0	-0.12	-49.44	0.0	5.63	49.44	1.19	0.0	-130.52	-2719.21
		-2719.21	-130.52	-0.02	0.0	110.0	5.63	0.0	1.19	0.0	0.0	0.0
105	1	-1.803e+04	3389.15	0.12	-40.86	0.0	-334.98	307.84	-28.52	0.0	3389.15	-5.539e+04
		-5.539e+04	-318.73	0.01	0.0	130.0	-334.98	266.98	-28.52	0.0	-318.73	-1.803e+04
105	3	2.634e+04	4468.64	-0.21	-40.86	0.0	334.98	149.52	-45.14	0.0	4468.64	9559.22
		9559.22	-1398.91	0.01	0.0	130.0	334.98	108.66	-45.14	0.0	-1398.91	2.634e+04
105	18	-2497.21	3024.76	0.02	-40.86	0.0	-100.49	252.43	125.25	0.0	-1.326e+04	-3.266e+04
		-3.266e+04	-1.326e+04	-0.03	0.0	130.0	-100.49	211.56	125.25	0.0	3024.76	-2497.21
105	19	1.081e+04	1.326e+04	-0.10	-40.86	0.0	100.49	204.93	-125.25	0.0	1.326e+04	-1.317e+04
		-1.317e+04	-3024.76	0.03	0.0	130.0	100.49	164.07	-125.25	0.0	-3024.76	1.081e+04
105	33	-3487.77	1338.89	0.02	-40.86	0.0	-115.45	255.96	-11.43	0.0	1338.89	-3.411e+04
		-3.411e+04	-147.19	4.01e-03	0.0	130.0	-115.45	215.10	-11.43	0.0	-147.19	-3487.77
105	35	1.180e+04	1710.94	-0.10	-40.86	0.0	115.45	201.40	-17.16	0.0	1710.94	-1.172e+04
		-1.172e+04	-519.48	4.01e-03	0.0	130.0	115.45	160.53	-17.16	0.0	-519.48	1.180e+04
105	50	1864.06	1166.95	-0.03	-40.86	0.0	-34.64	236.86	48.51	0.0	-5138.85	-2.627e+04
		-2.627e+04	-5138.85	-0.01	0.0	130.0	-34.64	196.00	48.51	0.0	1166.95	1864.06
105	51	6451.34	5138.85	-0.06	-40.86	0.0	34.64	220.49	-48.51	0.0	5138.85	-1.956e+04
		-1.956e+04	-1166.95	0.01	0.0	130.0	34.64	179.63	-48.51	0.0	-1166.95	6451.34
106	1	0.0	0.0	0.10	-49.44	0.0	4.43	0.0	-21.29	0.0	0.0	0.0
		-2719.21	-2342.07	0.07	0.0	110.0	4.43	-49.44	-21.29	0.0	-2342.07	-2719.21
106	3	0.0	2342.07	0.10	-49.44	0.0	4.43	0.0	21.29	0.0	0.0	0.0
		-2719.21	0.0	-0.06	0.0	110.0	4.43	-49.44	21.29	0.0	2342.07	-2719.21
106	17	0.0	0.0	0.25	-49.44	0.0	14.77	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	14.77	-49.44	-6.39	0.0	-702.62	-2719.21
106	18	0.0	0.0	-0.17	-49.44	0.0	-14.77	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	-14.77	-49.44	-6.39	0.0	-702.62	-2719.21
106	25	0.0	0.0	0.25	-49.44	0.0	13.73	0.0	-6.39	0.0	0.0	0.0
		-2719.21	-702.62	0.02	0.0	110.0	13.73	-49.44	-6.39	0.0	-702.62	-2719.21
106	33	0.0	0.0	0.06	-49.44	0.0	1.72	0.0	-7.34	0.0	0.0	0.0
		-2719.21	-807.20	0.02	0.0	110.0	1.72	-49.44	-7.34	0.0	-807.20	-2719.21
106	35	0.0	807.20	0.06	-49.44	0.0	1.72	0.0	7.34	0.0	0.0	0.0
		-2719.21	0.0	-0.02	0.0	110.0	1.72	-49.44	7.34	0.0	807.20	-2719.21
106	49	0.0	0.0	0.12	-49.44	0.0	5.73	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	7.92e-03	0.0	110.0	5.73	-49.44	-2.20	0.0	-242.16	-2719.21
106	50	0.0	0.0	-0.04	-49.44	0.0	-5.73	0.0	-2.20	0.0	0.0	0.0
		-2719.21	-242.16	5.41e-03	0.0	110.0	-5.73	-49.44	-2.20	0.0	-242.16	-2719.21
106	55	0.0	130.52	0.12	-49.44	0.0	5.73	0.0	1.19	0.0	0.0	0.0
		-2719.21	0.0	-2.31e-03	0.0	110.0	5.73	-49.44	1.19	0.0	130.52	-2719.21
107	1	-271.53	5709.92	0.02	-40.86	0.0	131.39	-198.72	52.65	0.0	-1134.91	-271.53
		-2.876e+04	-1134.91	-4.65e-03	0.0	130.0	131.39	-239.58	52.65	0.0	5709.92	-2.876e+04
107	3	19.35	4503.02	0.03	-40.86	0.0	-131.39	-209.83	35.75	0.0	-144.98	19.35
		-2.991e+04	-144.98	-5.07e-03	0.0	130.0	-131.39	-250.69	35.75	0.0	4503.02	-2.991e+04
107	4	19.35	1134.91	0.03	-40.86	0.0	-131.39	-209.83	-52.65	0.0	1134.91	19.35
		-2.991e+04	-5709.92	4.65e-03	0.0	130.0	-131.39	-250.69	-52.65	0.0	-5709.92	-2.991e+04
107	17	-169.72	1.720e+04	0.02	-40.86	0.0	39.42	-202.61	149.88	0.0	-2281.64	-169.72
		-2.916e+04	-2281.64	-0.02	0.0	130.0	39.42	-243.47	149.88	0.0	1.720e+04	-2.916e+04
107	20	-82.46	2281.64	0.03	-40.86	0.0	-39.42	-205.94	-149.88	0.0	2281.64	-82.46
		-2.951e+04	-1.720e+04	0.02	0.0	130.0	-39.42	-246.80	-149.88	0.0	-1.720e+04	-2.951e+04
107	33	-176.22	2189.94	0.02	-40.86	0.0	45.28	-202.36	20.07	0.0	-418.97	-176.22
		-2.914e+04	-418.97	-1.81e-03	0.0	130.0	45.28	-243.22	20.07	0.0	2189.94	-2.914e+04
107	35	-75.96	1773.98	0.03	-40.86	0.0	-45.28	-206.19	14.24	0.0	-77.79	-75.96
		-2.954e+04	-77.79	-1.96e-03	0.0	130.0	-45.28	-247.05	14.24	0.0	1773.98	-2.954e+04
107	49	-141.13	6668.93	0.02	-40.86	0.0	13.59	-203.70	58.06	0.0	-879.11	-141.13
		-2.928e+04	-879.11	-6.26e-03	0.0	130.0	13.59	-244.56	58.06	0.0	6668.93	-2.928e+04
107	52	-111.05	879.11	0.02	-40.86	0.0	-13.59	-204.85	-58.06	0.0	879.11	-111.05
		-2.940e+04	-6668.93	6.26e-03	0.0	130.0	-13.59	-245.71	-58.06	0.0	-6668.93	-2.940e+04

Trave	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	-5.539e+04	-1.795e+04	-0.25	-49.44	-334.98	-310.57	-186.23	0.0

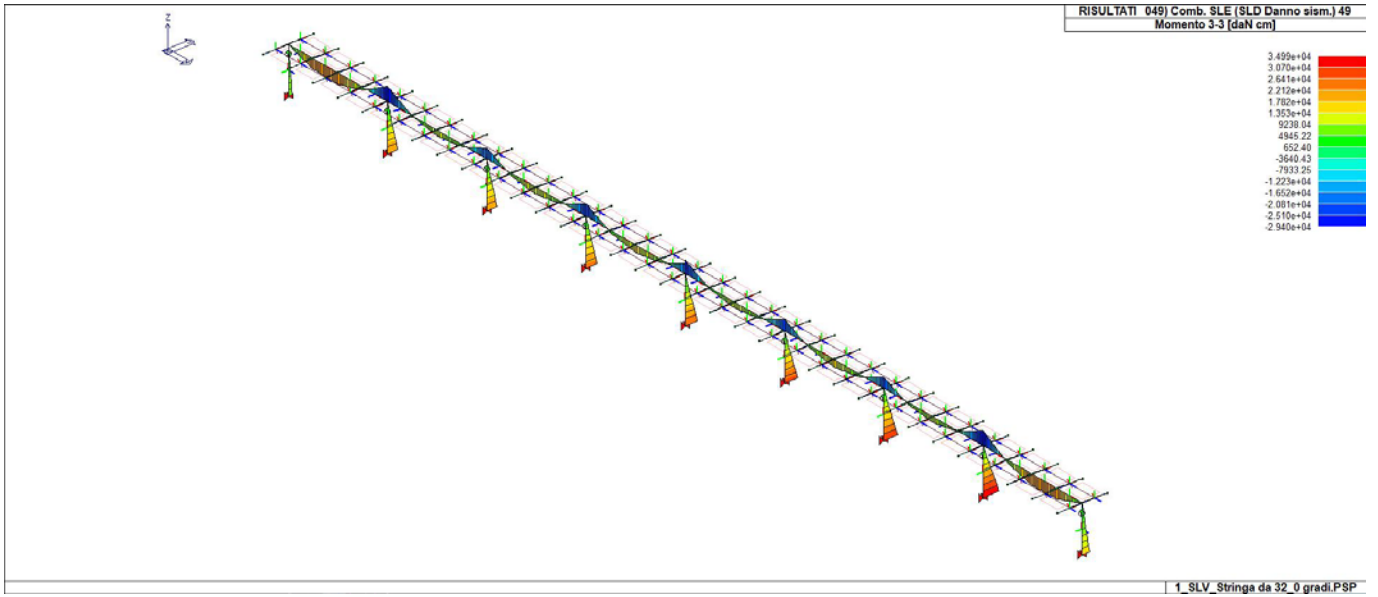
2.649e+04 1.795e+04 0.25 0.0 334.98 310.57 186.23 0.0



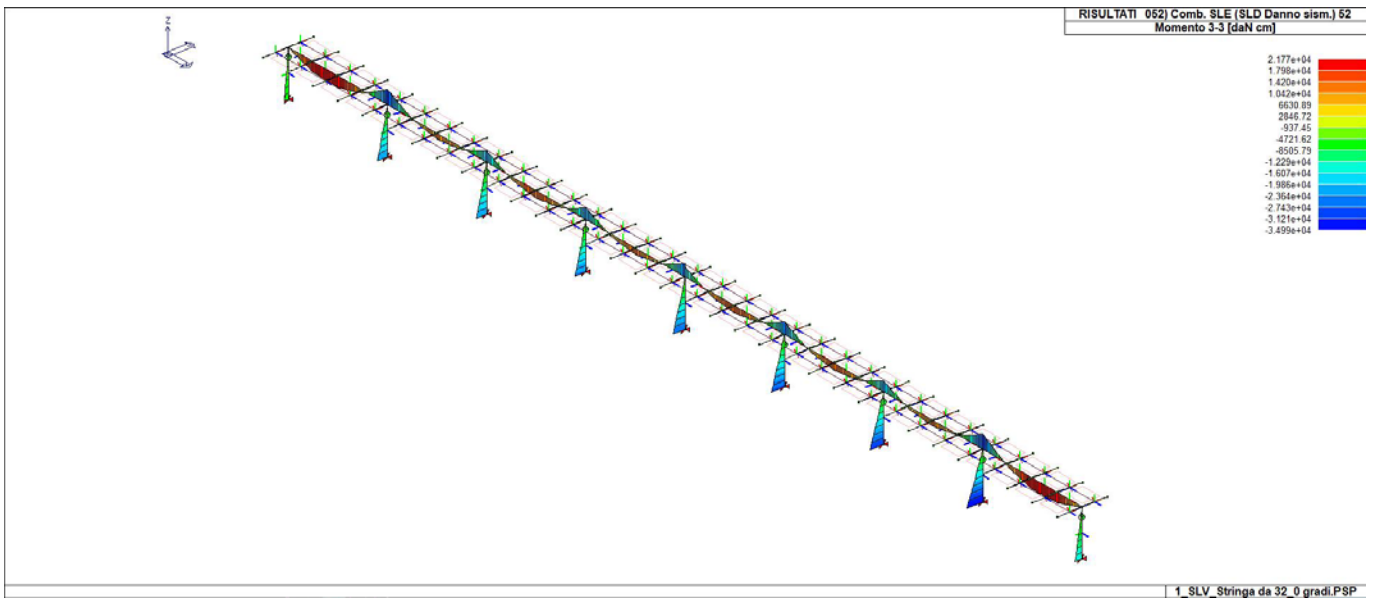
43_RIS_M3_017_Comb. SLU A1 (SLV sism.) 17



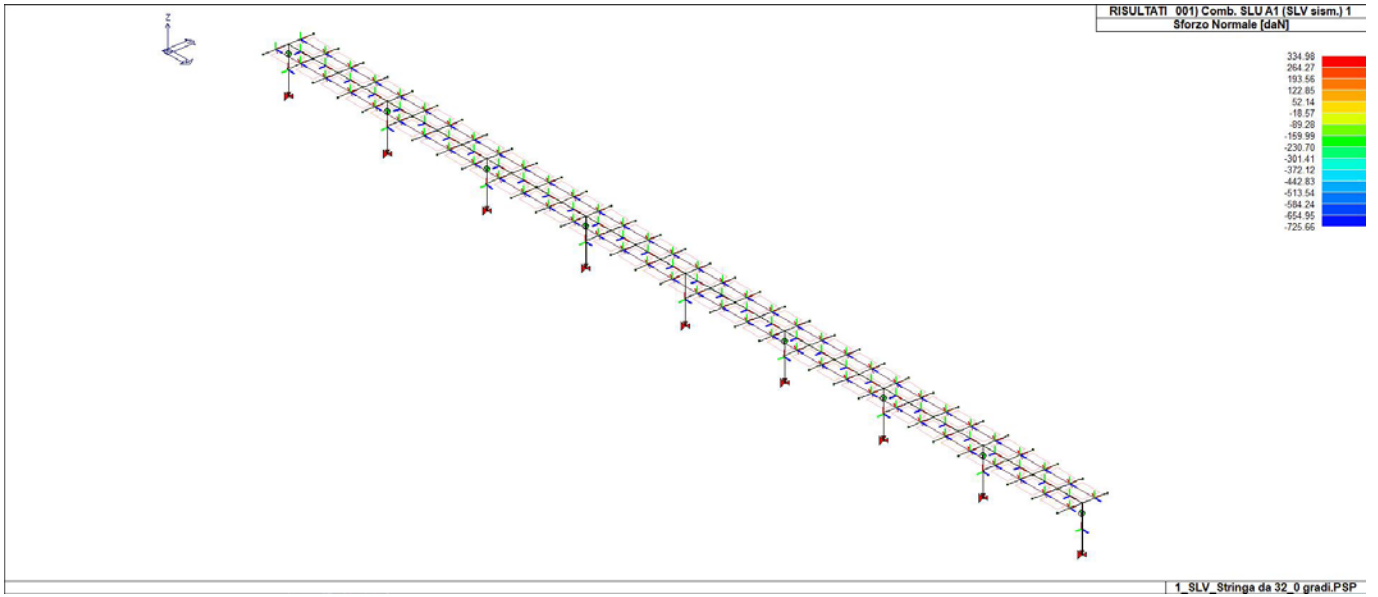
43_RIS_M3_020_Comb. SLU A1 (SLV sism.) 20



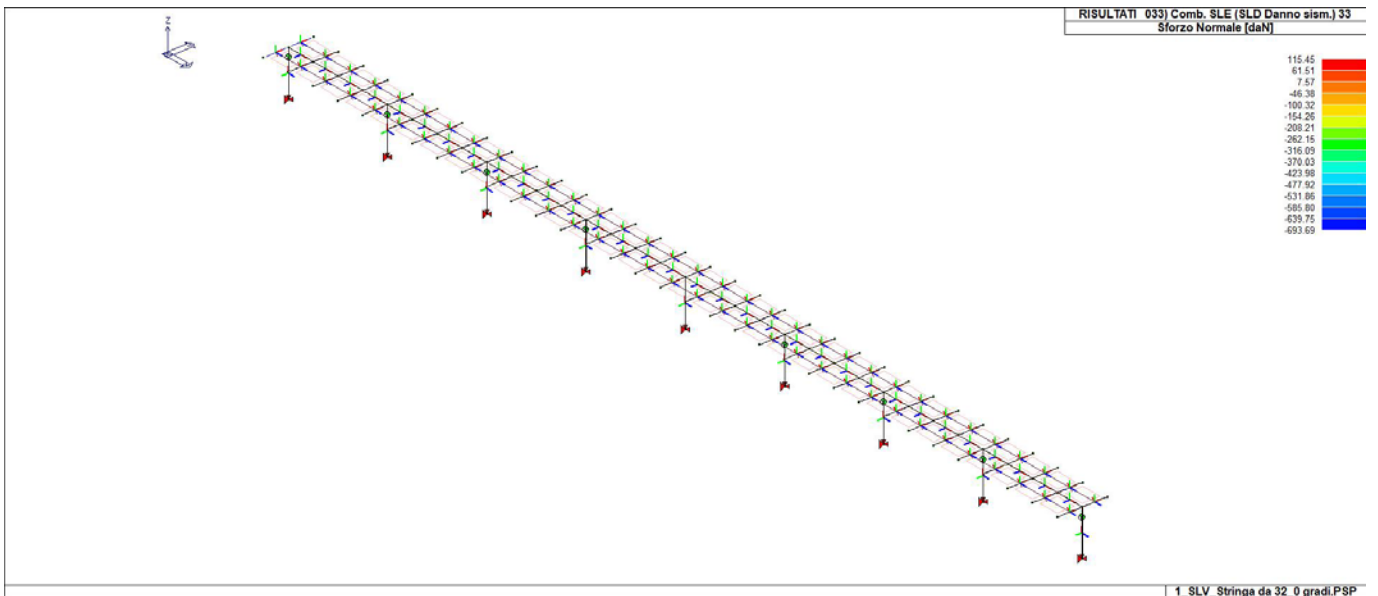
43_RIS_M3_049_Comb. SLE (SLD Danno sism.) 49



43_RIS_M3_052_Comb. SLE (SLD Danno sism.) 52



43_RIS_N_001_Comb. SLU A1 (SLV sism.) 1



43_RIS_N_033_Comb. SLE (SLD Danno sism.) 33

VERIFICHE PER ELEMENTI IN ACCIAIO

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	X
4.2.4.1.3.3 Membrature inflesse e compresse	X	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	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 flesso-torsionale)			
Beta_{xL}	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 flesso-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 x Omega x 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 x Omega x 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 sovreresistenza come prevista al par. 7.5.4.2 (i valori non sono normalizzati pertanto saranno maggiori uguali a gamma rd in base alla classe di duttilità)			

Nel caso in cui λS sia minore di 0.2, oppure nel caso in cui la sollecitazione di calcolo NEd sia inferiore a 0.04 Ncr, gli effetti legati ai fenomeni di instabilità sono trascurati, come da paragrafo 4.2.4.1.3.1

Trave	Stato	Note	V V/T	V N/M	V stab	Cl.LamS	22LamS	33	Snell.	Chi mn	V flstLamS	LT	Chi LT	Rif. cmb
1	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,3,0,17
2	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,12,0,26
3	oks=17,m=134.30e-03		0.04			1	0.3	0.3	24.5	0.97	0.04	8.39e-02	1.00	1,3,0,3
4	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,3,0,25
7	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,12,0,26
8	oks=17,m=134.37e-03		0.04			1	0.3	0.3	24.5	0.97	0.04	6.38e-02	1.00	3,4,0,3
9	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	17,3,0,25
10	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,12,0,26
11	oks=17,m=137.36e-03		0.07			1	0.3	0.3	24.5	0.97	0.05	5.53e-02	1.00	3,19,0,3
12	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	18,12,0,26
13	oks=17,m=137.95e-03		0.06			1	0.3	0.3	24.5	0.97	0.05	5.52e-02	1.00	3,20,0,3
14	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,3,0,25
15	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,3,0,25
17	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,12,0,26
18	oks=17,m=136.53e-03		0.06			1	0.3	0.3	24.5	0.97	0.05	6.01e-02	1.00	3,19,0,3
19	oks=18,m=124.89e-03		0.07			3	0.4	0.3	36.0	0.89	0.03	0.5	0.84	17,7,0,17
20	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,7,0,17
21	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,3,0,17
23	oks=18,m=124.89e-03		0.07			3	0.4	0.3	36.0	0.89	0.03	0.5	0.84	18,16,0,18
24	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,16,0,18
25	oks=17,m=134.47e-03		0.05			1	0.3	0.3	24.5	0.97	0.03	5.90e-02	1.00	3,32,0,3
26	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,7,0,25
27	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,12,0,26
28	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,12,0,18
29	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,16,0,26
30	oks=17,m=138.95e-04		0.06			1	0.3	0.3	24.5	0.97	0.03	8.23e-02	1.00	3,27,0,3
31	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,7,0,25
32	oks=17,m=132.96e-03		0.04			1	0.3	0.3	24.5	0.97	0.03	7.22e-02	1.00	3,18,0,1
33	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,3,0,25
34	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,16,0,26
35	oks=17,m=133.78e-03		0.06			1	0.3	0.3	24.5	0.97	0.03	6.49e-02	1.00	1,28,0,3
36	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	17,7,0,25
37	oks=17,m=133.78e-03		0.06			1	0.3	0.3	24.5	0.97	0.03	6.49e-02	1.00	3,18,0,1
38	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,3,0,25
39	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	18,16,0,26
40	oks=17,m=137.36e-03		0.07			1	0.3	0.3	24.5	0.97	0.05	5.53e-02	1.00	1,25,0,1
41	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,7,0,25
42	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,12,0,26
43	oks=17,m=132.75e-03		0.04			1	0.3	0.3	24.5	0.97	0.03	6.64e-02	1.00	1,17,0,1
44	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,16,0,26
45	oks=17,m=136.41e-03		0.07			1	0.3	0.3	24.5	0.97	0.05	5.90e-02	1.00	1,26,0,1
46	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,7,0,17
47	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	17,3,0,17
49	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,16,0,18
50	oks=17,m=132.84e-03		0.03			1	0.3	0.3	24.5	0.97	0.02	0.1	1.00	1,26,0,1
51	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,7,0,25
53	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	18,12,0,26
54	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,16,0,26
55	oks=17,m=132.07e-03		0.03			1	0.3	0.3	24.5	0.97	0.02	6.92e-02	1.00	3,25,0,1
56	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	17,7,0,17
57	oks=17,m=136.32e-03		0.06			1	0.3	0.3	24.5	0.97	0.04	5.38e-02	1.00	1,17,0,1
58	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,3,0,25
59	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	18,16,0,18
60	oks=17,m=135.64e-03		0.06			1	0.3	0.3	24.5	0.97	0.04	5.68e-02	1.00	3,28,0,3
61	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,7,0,25
62	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,12,0,26
63	oks=17,m=138.95e-04		0.06			1	0.3	0.3	24.5	0.97	0.03	8.23e-02	1.00	1,17,0,1
64	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,16,0,26
65	oks=17,m=136.32e-03		0.06			1	0.3	0.3	24.5	0.97	0.04	5.38e-02	1.00	3,27,0,3
66	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,7,0,17
67	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,12,0,26
68	oks=17,m=135.64e-03		0.06			1	0.3	0.3	24.5	0.97	0.04	5.68e-02	1.00	1,18,0,1
69	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,16,0,18
70	oks=17,m=132.75e-03		0.04			1	0.3	0.3	24.5	0.97	0.03	6.64e-02	1.00	3,27,0,3
71	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,7,0,17
72	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,3,0,25
73	oks=18,m=124.89e-03		0.07			3	0.4	0.3	36.0	0.89	0.03	0.5	0.84	17,3,0,25
74	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,16,0,26
75	oks=17,m=132.96e-03		0.04			1	0.3	0.3	24.5	0.97	0.03	7.22e-02	1.00	1,28,0,3
76	oks=18,m=128.63e-03		0.12			3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	25,7,0,25
78	oks=18,m=128.63e-03		0.12			3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,12,0,26

79	oks=18,m=128.63e-03	0.12	3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	26,16,0,26
80	oks=17,m=136.53e-03	0.06	1	0.3	0.3	24.5	0.97	0.05	6.01e-02	1.00	1,25,0,1
81	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,7,0,25
82	oks=17,m=132.07e-03	0.03	1	0.3	0.3	24.5	0.97	0.02	6.92e-02	1.00	1,19,0,3
83	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,3,0,17
84	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,16,0,26
85	oks=17,m=137.95e-03	0.06	1	0.3	0.3	24.5	0.97	0.05	5.52e-02	1.00	1,26,0,1
86	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	1,7,0,25
88	oks=18,m=124.89e-03	0.07	3	0.4	0.3	36.0	0.89	0.03	0.5	0.84	18,12,0,26
89	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,16,0,18
90	oks=17,m=134.37e-03	0.04	1	0.3	0.3	24.5	0.97	0.04	6.38e-02	1.00	1,6,0,1
91	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,7,0,25
92	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,12,0,18
93	oks=17,m=132.84e-03	0.03	1	0.3	0.3	24.5	0.97	0.02	0.1	1.00	3,20,0,3
94	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,16,0,26
95	oks=17,m=134.30e-03	0.04	1	0.3	0.3	24.5	0.97	0.04	8.39e-02	1.00	3,5,0,1
96	oks=18,m=128.63e-03	0.12	3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	17,7,0,25
97	oks=18,m=128.63e-03	0.12	3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	17,3,0,25
98	oks=17,m=134.47e-03	0.05	1	0.3	0.3	24.5	0.97	0.03	5.90e-02	1.00	1,17,0,1
99	oks=18,m=128.63e-03	0.12	3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	18,16,0,26
100	oks=17,m=137.88e-03	0.09	1	0.3	0.3	24.5	0.97	0.08	6.62e-02	1.00	3,8,0,3
101	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	18,3,0,17
103	oks=18,m=128.63e-03	0.12	3	0.4	0.3	36.0	0.89	0.06	0.5	0.84	18,12,0,26
104	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	1,12,0,26
105	oks=17,m=137.88e-03	0.09	1	0.3	0.3	24.5	0.97	0.08	6.62e-02	1.00	1,2,0,1
106	oks=18,m=128.63e-03	0.12	3	0.4	0.7	59.7	0.73	0.06	0.5	0.84	17,3,0,25
107	oks=17,m=136.41e-03	0.07	1	0.3	0.3	24.5	0.97	0.05	5.90e-02	1.00	3,20,0,3

Trave	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
	8.63e-03	0.12		0.42	0.69	59.74	0.73	0.08	0.51	0.84

Trave	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 daN	V Ed,M daN
1							0.0	0.0	0.0	0.0	0.0	0.0	0.0
2							0.0	0.0	0.0	0.0	0.0	0.0	0.0
3							0.0	0.0	0.0	0.0	0.0	0.0	0.0
4							0.0	0.0	0.0	0.0	0.0	0.0	0.0
7							0.0	0.0	0.0	0.0	0.0	0.0	0.0
8							0.0	0.0	0.0	0.0	0.0	0.0	0.0
9							0.0	0.0	0.0	0.0	0.0	0.0	0.0
10							0.0	0.0	0.0	0.0	0.0	0.0	0.0
11							0.0	0.0	0.0	0.0	0.0	0.0	0.0
12							0.0	0.0	0.0	0.0	0.0	0.0	0.0
13							0.0	0.0	0.0	0.0	0.0	0.0	0.0
14							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
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
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
45							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

47	0.0	0.0	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	0.0	0.0
50	0.0	0.0	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	0.0	0.0
53	0.0	0.0	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	0.0	0.0
55	0.0	0.0	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	0.0	0.0
57	0.0	0.0	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	0.0	0.0
59	0.0	0.0	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	0.0	0.0
61	0.0	0.0	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	0.0	0.0
63	0.0	0.0	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	0.0	0.0
65	0.0	0.0	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	0.0	0.0
67	0.0	0.0	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	0.0	0.0
69	0.0	0.0	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	0.0	0.0
71	0.0	0.0	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	0.0	0.0
73	0.0	0.0	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	0.0	0.0
75	0.0	0.0	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	0.0	0.0
78	0.0	0.0	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	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	0.0	0.0	0.0	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	0.0	0.0	0.0
83	0.0	0.0	0.0	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	0.0	0.0	0.0
85	0.0	0.0	0.0	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	0.0	0.0	0.0
88	0.0	0.0	0.0	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	0.0	0.0	0.0
90	0.0	0.0	0.0	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	0.0	0.0	0.0
92	0.0	0.0	0.0	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	0.0	0.0	0.0
94	0.0	0.0	0.0	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	0.0	0.0	0.0
96	0.0	0.0	0.0	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	0.0	0.0	0.0
98	0.0	0.0	0.0	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	0.0	0.0	0.0
100	0.0	0.0	0.0	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	0.0	0.0	0.0
103	0.0	0.0	0.0	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	0.0	0.0	0.0
105	0.0	0.0	0.0	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	0.0	0.0	0.0
107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

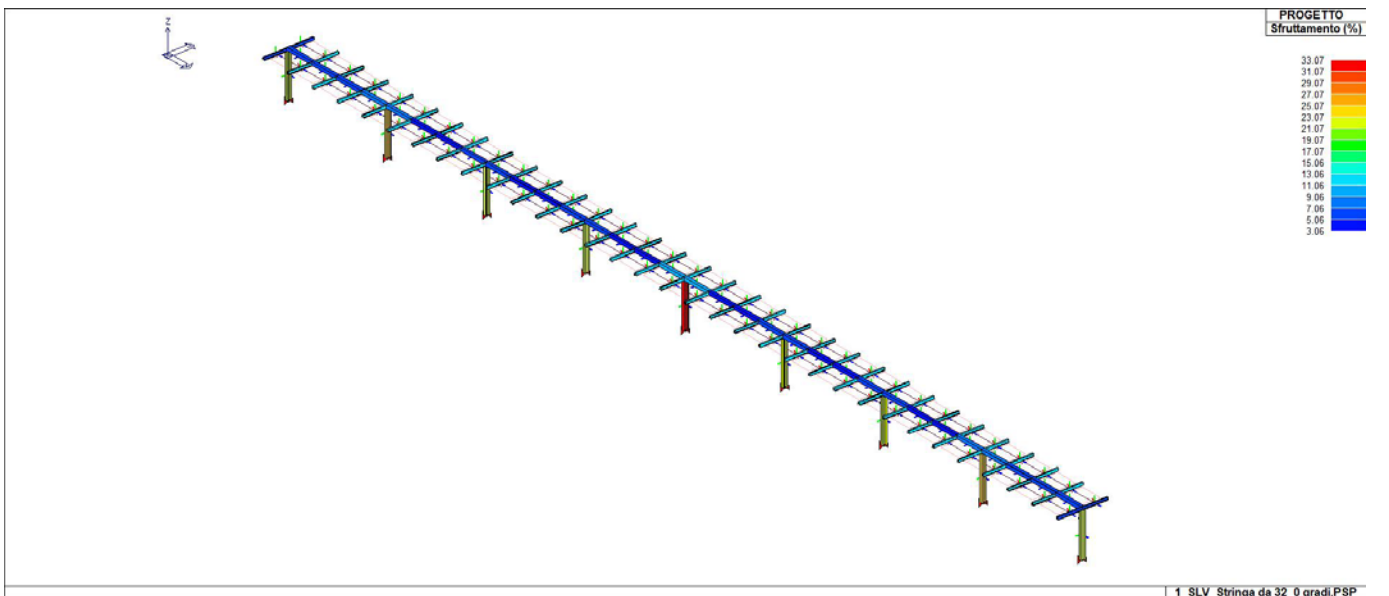
Trave	v.Omeg	V N/M	V stab	V[7.5.4]	M Ed	V[7.5.5]	N Ed	V[7.5.6]	V Ed,G	V Ed,M
				0.0	0.0	0.0	0.0	0.0	0.0	0.0
				0.0	0.0	0.0	0.0	0.0	0.0	0.0

Pilas.	Stato	Note	V V/T	V N/M	V stab	Cl.LamS	22LamS	33	Snell.	Chi mn	V flstLamS	LT	Chi LT	Rif. cmb
5	oks=16,m=12		0.02	0.24		1	1.2	0.7	100.4	0.46	0.14	0.2	1.00	17,1,0,17
6	oks=16,m=12		0.01	0.21		1	1.2	0.7	100.4	0.46	0.06	0.2	1.00	17,1,0,17
16	oks=16,m=12		0.01	0.21		1	1.2	0.7	100.4	0.46	0.06	0.2	1.00	26,6,0,26
22	oks=16,m=12		0.02	0.24		1	1.2	0.7	100.4	0.46	0.14	0.2	1.00	26,6,0,26
48	oks=16,m=12		0.02	0.23		1	1.2	0.7	100.4	0.46	0.11	0.2	1.00	26,6,0,26
52	oks=16,m=12		0.02	0.23		1	1.2	0.7	100.4	0.46	0.12	0.2	1.00	25,5,0,25
77	oks=16,m=12		0.02	0.33		1	1.2	0.7	100.4	0.46	0.11	0.2	1.00	1,1,0,17
87	oks=16,m=12		0.02	0.23		1	1.2	0.7	100.4	0.46	0.12	0.2	1.00	18,2,0,18
102	oks=16,m=12		0.02	0.23		1	1.2	0.7	100.4	0.46	0.11	0.2	1.00	17,1,0,17

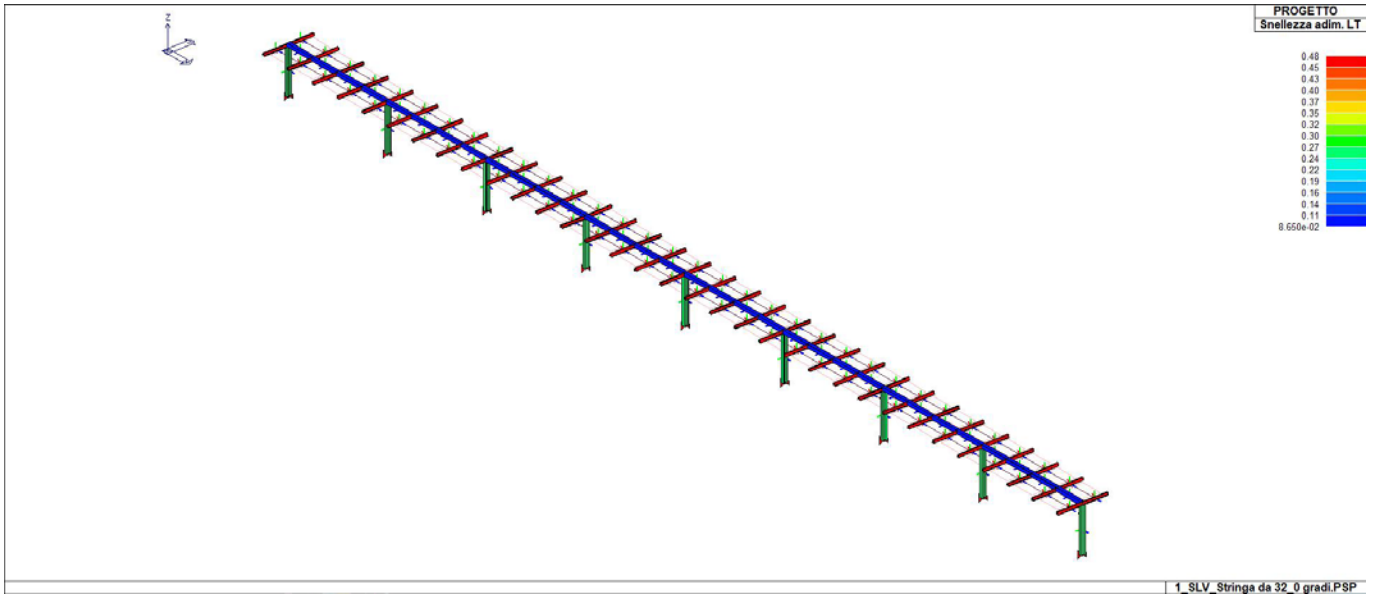
Pilas.	V V/T	V N/M	V stab	LamS	22LamS	33	Snell.	Chi mn	V flstLamS	LT	Chi LT
	0.02	0.33		1.16	0.70		100.39	0.46	0.14	0.18	1.00

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. daN	Xi sovr.	Xf sovr.	Yi sovr.	Yf
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					
16	0.0	0.0	ok	0.0	0.0			0,0,0,0					
22	0.0	0.0	ok	0.0	0.0			0,0,0,0					
48	0.0	0.0	ok	0.0	0.0			0,0,0,0					
52	0.0	0.0	ok	0.0	0.0			0,0,0,0					
77	0.0	0.0	ok	0.0	0.0			0,0,0,0					
87	0.0	0.0	ok	0.0	0.0			0,0,0,0					
102	0.0	0.0	ok	0.0	0.0			0,0,0,0					

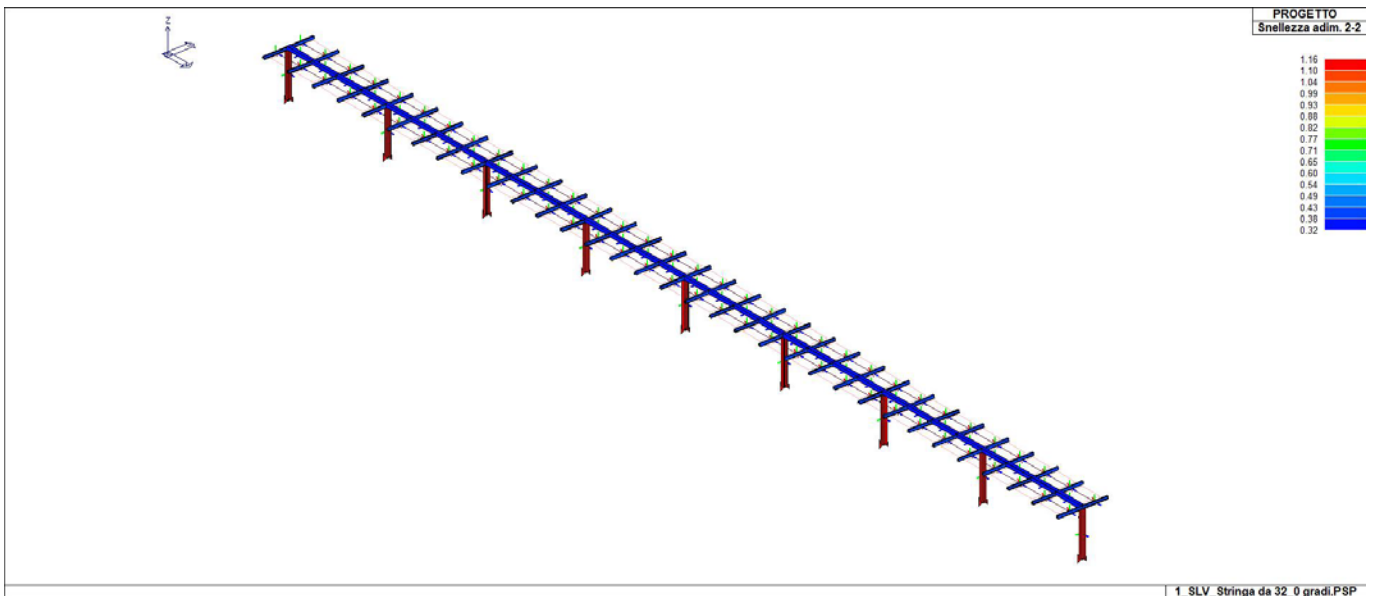
Pilas.	V V/T	V N/M	V stab	V flst	V[7.5.10]	V Ed sovr.	Xi sovr.	Xf sovr.	Yi sovr.	Yf
	0.0	0.0								



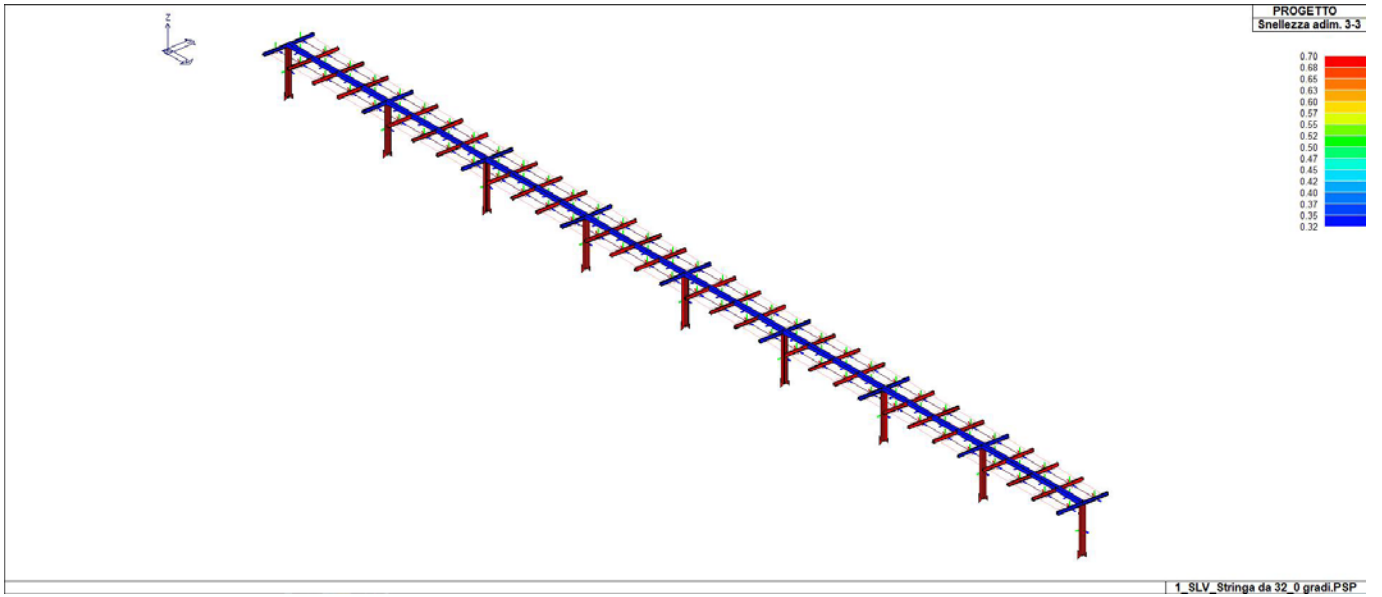
73_PRO_ST_SFRUTTAMENTO



73_PRO_ST_SNELLEZZATOR



73_PRO_ST_SNELLEZZAXX



73_PRO_ST_SNELLEZZAYY

1_SLV_Stringa da 32_0 gradi.PSP



Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 17 Gennaio 2018 cap. 10 “Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo”.

Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2021-12-194)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it
Codice Licenza:	Licenza dsi5815

Descrizione	
Progetto	CALCOLO E VERIFICA DI INSEGUITORI SOLARI (TRACKER)
Ubicazione	Comune di DELICETO (FG) (Regione PUGLIA) Località DELICETO (FG) Longitudine 15.386, Latitudine 41.222

**FASCICOLO DI CALCOLO
TOMO N.3 – VERIFICHE DI RESISTENZA TRACKER
SLV/SLD INCL. A 55 GRADI**

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RELAZIONE DI CALCOLO STRUTTURALE

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.

Descrizione generale dell'opera

In questo **Tomo di calcolo n.3** si affrontano le verifiche degli inseguitori solari a Stato limite di salvaguardia della Vita umana e di Danno sotto azioni sismiche nella configurazione con inclinazione pari a 55 gradi sull'orizzontale.

Descrizione generale dell'opera	
Ubicazione	Comune di DELICETO (FG) (Regione PUGLIA)
	Località DELICETO (FG)
	Longitudine 15.386, Latitudine 41.222
Tipo di struttura	ACCIAIO

Principali caratteristiche della struttura	
Struttura regolare in pianta	SI
Struttura regolare in altezza	SI
Classe di duttilità	NON DISSIPATIVA
Tipo di fondazione	PALI IN ACCIAIO AD ELICA
Condizioni per cui è necessario considerare la componente verticale del sisma	NO

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
II	50.0	1.0	50.0

Fattore di struttura/comportamento
La struttura portante viene calcolata come struttura con comportamento elastico, non dissipativa, con fattore di comportamento $q=1.0$ per entrambe le direzioni principali X e Y di analisi.

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

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:

$$\mathbf{K} \cdot \mathbf{u} = \mathbf{F} \quad \text{dove} \quad \mathbf{K} = \text{matrice di rigidezza}$$
$$\mathbf{u} = \text{vettore spostamenti nodali}$$
$$\mathbf{F} = \text{vettore forze nodali}$$

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)

Modello numerico

Tipo di analisi strutturale	
Sismica statica lineare	SI
Sismica dinamica lineare	NO
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)	SI
Analisi lineare	SI

Modellazione della geometria e proprietà meccaniche:	
nodi	108
elementi D2 (per aste, travi, pilastri...)	107
elementi D3 (per pareti, platee, gusci...)	0
elementi solaio	64
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	500.00
Xmax =	4660.00
Ymin =	2046.91
Ymax =	2173.09
Zmin =	0.00
Zmax =	290.11
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	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	SI

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

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”*.

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)	NO
Combinazione frequente	NO
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 involuipi 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.).

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.

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.

RELAZIONE SUI MATERIALI

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

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.

ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

Vertici della maglia elementare INGV [riferimento WGS84]

Id nodo	Longitudine	Latitudine	Distanza [km]
31441	15.351	41.220	2.926
31442	15.418	41.219	2.688
31220	15.419	41.269	5.090
31219	15.353	41.270	5.988

Coordinate geografiche [riferimento WGS84]

Località:

Longitudine: Latitudine:

Parametri per le forme spettrali

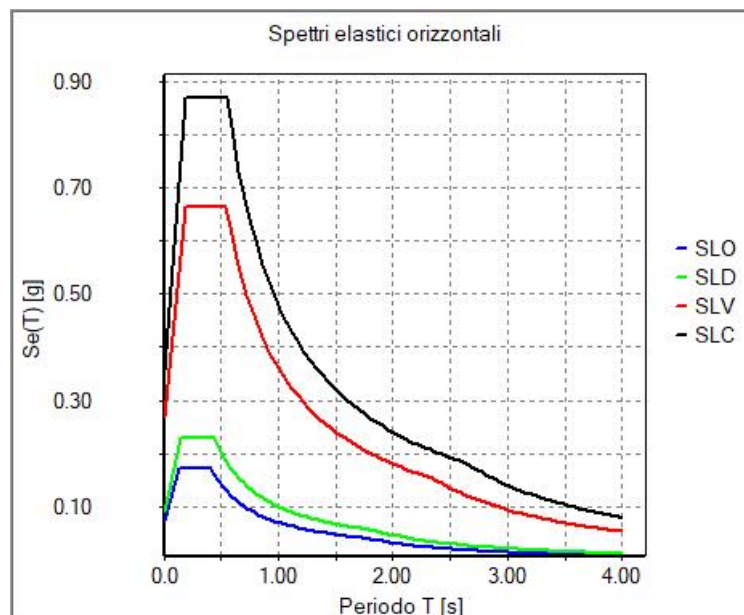
	Pver	Tr	ag [g]	Fo	T*c
SLO	81	30.11	0.0496	2.416	0.290
SLD	63	50.29	0.0626	2.534	0.320
SLV	10	474.56	0.1874	2.456	0.416
SLC	5	974.79	0.2593	2.436	0.423

Periodo di riferimento per l'azione sismica

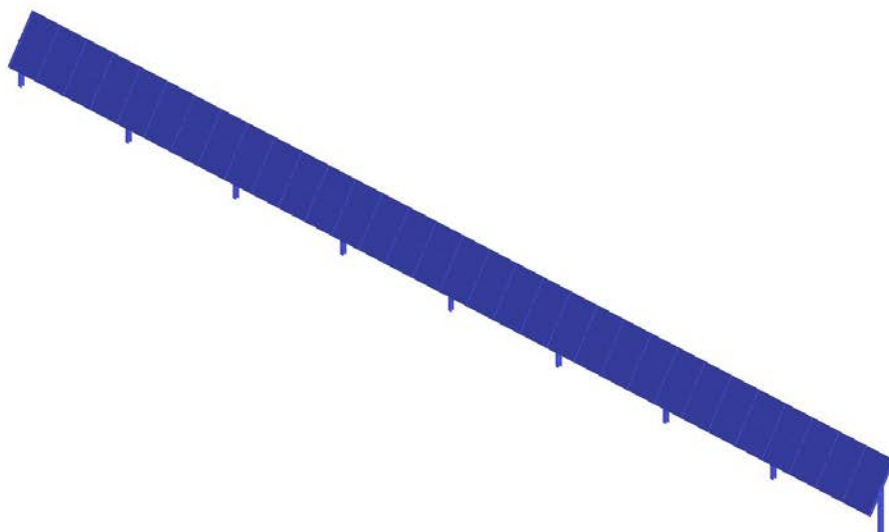
Vita Vn [anni]	Coefficiente uso Cu	Periodo Vr [anni]	Livello di sicurezza
<input type="text" value="50"/>	<input type="text" value="1"/>	<input type="text" value="50"/>	<input type="text" value="100"/>

Nota: per il calcolo dei parametri sismici
1) Inserire le coordinate geografiche 2) introdurre Vn e Cu
Per le isole è possibile utilizzare come località: gruppo isole N [con N = 1,2,3,4,5]

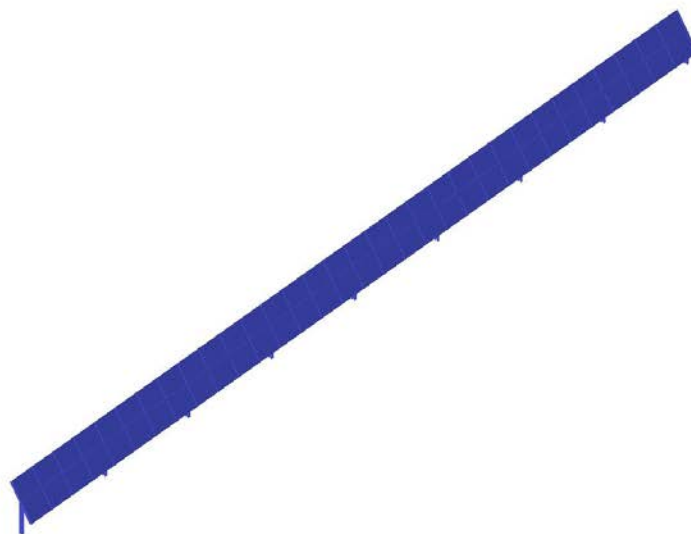
01_INT_PERICOLOSITA



01_INT_SPETTRI_ELASTICI_O



01_INT_VISTA_SOLIDA_001



01_INT_VISTA_SOLIDA_002

CARATTERISTICHE MATERIALI UTILIZZATI

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

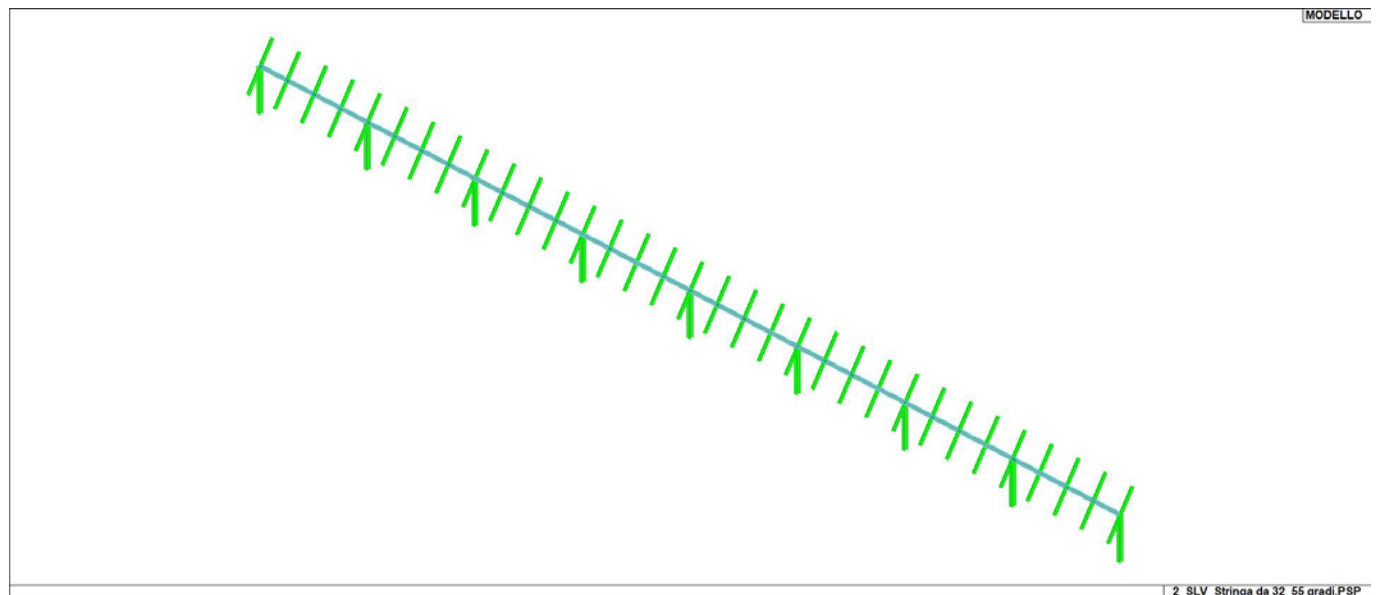
I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	c.a.	Resistenza Rc Resistenza fctm Coefficiente ksb	resistenza a compressione cubica resistenza media a trazione semplice Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft Tensione fy Resistenza fd Resistenza fd (>40) Tensione ammissibile Tensione ammissibile(>40)	Valore della tensione di rottura Valore della tensione di snervamento Resistenza di calcolo per SL CNR-UNI 10011 Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm Tensione ammissibile CNR-UNI 10011 Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura	Muratura consolidata Incremento resistenza Incremento rigidezza Resistenza f Resistenza fv0 Resistenza fh Resistenza fb Resistenza fbh Resistenza fv0h Resistenza ft Resistenza flim Resistenza fbt Coefficiente mu Coefficiente fi Coefficiente ksb	Muratura per la quale si prevedono interventi di rinforzo* Incremento conseguito in termini di resistenza Incremento conseguito in termini di rigidezza Valore della resistenza a compressione Valore della resistenza a taglio in assenza di tensioni normali Valore della resistenza a compressione orizzontale Valore della resistenza a compressione dei blocchi Valore della resistenza a compressione dei blocchi in direzione orizzontale Valore della resistenza a taglio in assenza di tensioni normali per le travi Valore della resistenza a trazione per fessurazione diagonale Valore della massima resistenza a taglio Valore della resistenza a trazione dei blocchi Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4) Coefficiente d'ingranamento utilizzato per la resistenza a taglio Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	E0,05 Resistenza fc0 Resistenza ft0 Resistenza fm Resistenza fv Resist. ft0k Resist. fmk Resist. fvk Modulo E0,05 Lamellare	Modulo di elasticità corrispondente ad un frattile del 5% Valore della resistenza a compressione parallela Valore della resistenza a trazione parallela Valore della resistenza a flessione Valore della resistenza a taglio Resistenza caratteristica (tensione amm. per REGLES) per trazione Resistenza caratteristica (tensione amm. per REGLES) per flessione Resistenza caratteristica (tensione amm. per REGLES) per taglio Modulo elastico parallelo caratteristico 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.

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
12	Acciaio Fe430 - S275-acciaio Fe430-S275			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	4300.0							
	Resistenza fd	2750.0							
	Resistenza fd (>40)	2500.0							
	Tensione ammissibile	1900.0							
	Tensione ammissibile (>40)	1700.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
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

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

Travi acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
3-3 Beta * L automatico	SI	SI	SI	SI	SI	NO
3-3 Beta assegnato	1.00	1.00	1.00	1.00	1.00	0.0
3-3 Beta assegnato [cm]	0.0	0.0	0.0	0.0	0.0	130.00
2-2 Beta * L automatico	SI	SI	SI	SI	SI	SI
2-2 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
2-2 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
1-1 Beta * L automatico	SI	SI	SI	SI	SI	SI
1-1 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
1-1 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
Generalità						
Coefficiente gamma M0	1.05	1.05	1.05	1.05	1.05	1.05
Coefficiente gamma M1	1.05	1.05	1.05	1.05	1.05	1.05
Coefficiente gamma M2	1.25	1.25	1.25	1.25	1.25	1.25
Luca di taglio per GR [cm]	0.0	1.00	1.00	1.00	1.00	0.0
Usa condizioni I e II	SI	SI	SI	SI	SI	SI
Momenti equivalenti	SI	SI	SI	SI	SI	SI

Solai e pannelli	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Usa tensioni ammissibili	NO	NO	NO	NO	NO	NO
Af inf: da traliccio	SI	SI	SI	SI	SI	SI
Consenti armatura a taglio	NO	NO	NO	NO	NO	NO
Incrementa armatura longitudinale per taglio	SI	SI	SI	SI	SI	SI
Af inf: da q*L*L /	20.00	20.00	20.00	20.00	20.00	20.00
Incremento fascia piena [cm]	5.00	5.00	5.00	5.00	5.00	5.00
Armatura						
Minima tesa	0.15	0.15	0.15	0.15	0.15	0.15
Massima tesa	3.00	3.00	3.00	3.00	3.00	3.00
Minima compressa	0.0	0.0	0.0	0.0	0.0	0.0
Af/h [cm]	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
Coefficiente gamma s	1.15	1.15	1.15	1.15	1.15	1.15
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50
Fattore di ridistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	85.00	85.00	85.00	85.00	85.00	85.00
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00	2600.00	2600.00	2600.00	2600.00
Rapporto omogeneizzazione N	15.00	15.00	15.00	15.00	15.00	15.00
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
Verifica freccia						
Infinita	250.00	250.00	250.00	250.00	250.00	250.00
Istantanea	500.00	500.00	500.00	500.00	500.00	500.00
Fattore viscosità	3.00	3.00	3.00	3.00	3.00	3.00
Usa J non fessurato	NO	NO	NO	NO	NO	NO
Elementi non strutturali						
Tamponatura antiespulsione	NO	NO	NO	NO	NO	NO
Tamponatura con armatura	NO	NO	NO	NO	NO	NO
Fattore di struttura/comportamento	2.00	2.00	2.00	2.00	2.00	2.00
Coefficiente gamma m	0.0	0.0	0.0	0.0	0.0	0.0
Periodo Ta	0.0	0.0	0.0	0.0	0.0	0.0
Altezza pannello	0.0	0.0	0.0	0.0	0.0	0.0

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

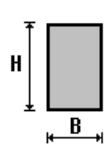
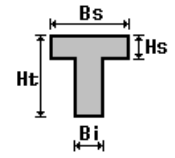
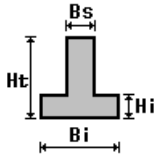
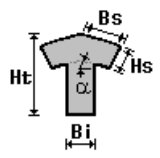
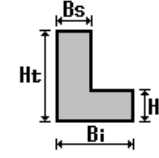
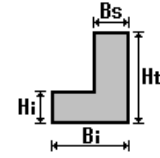
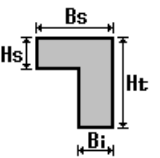
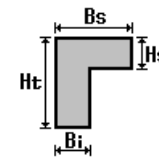
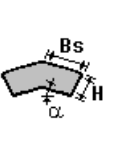
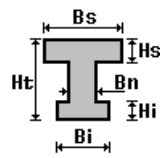
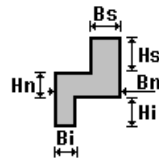
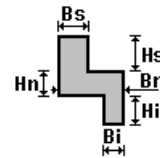
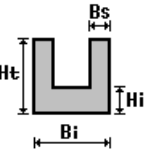
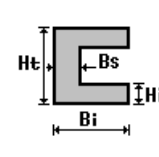
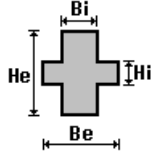
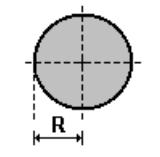
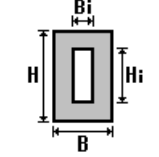
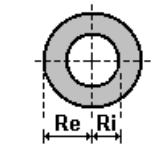
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

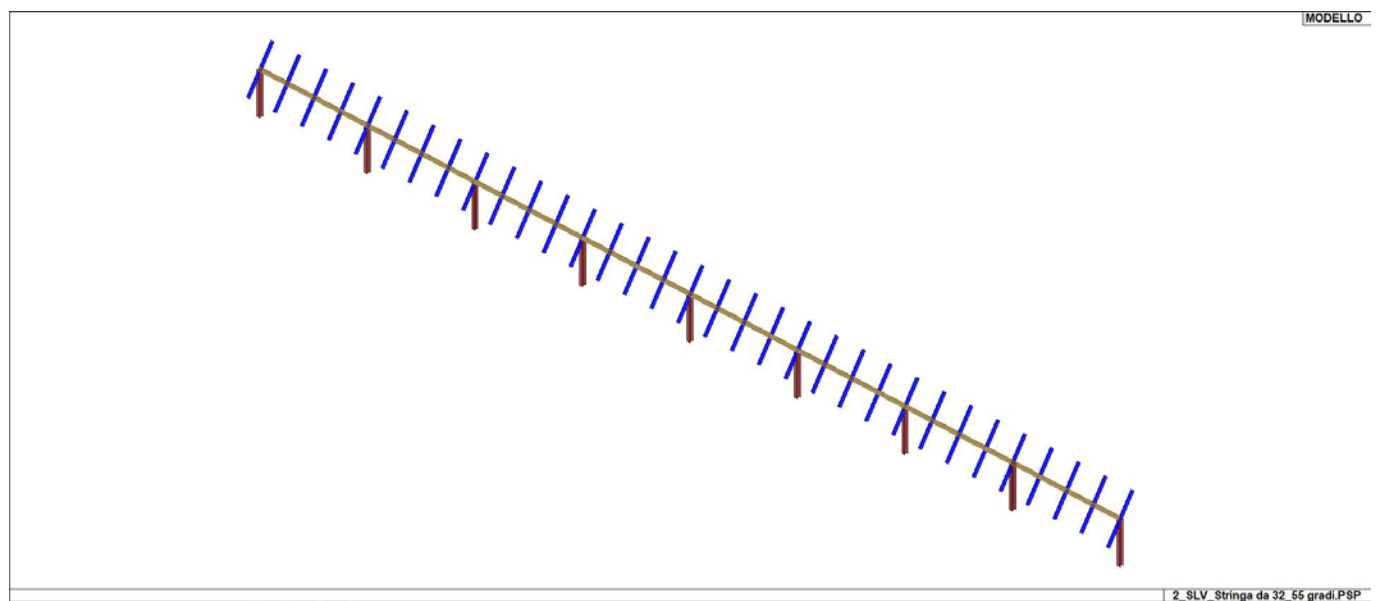
I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali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

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
16	HEA 160	38.80	0.0	0.0	12.20	616.00	1673.00	76.90	220.10	117.60	245.10
17	T.QU 140x140x8	40.04	0.0	0.0	1900.84	1126.77	1126.77	160.97	160.97	194.18	194.18
18	profilo OMG100x60x30x2.5 (Section Maker)	7.57	0.0	0.0	0.16	70.55	102.73	12.27	20.55	21.78	25.04



13_MOD_SEZIONI

MODELLAZIONE STRUTTURA: NODI

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).

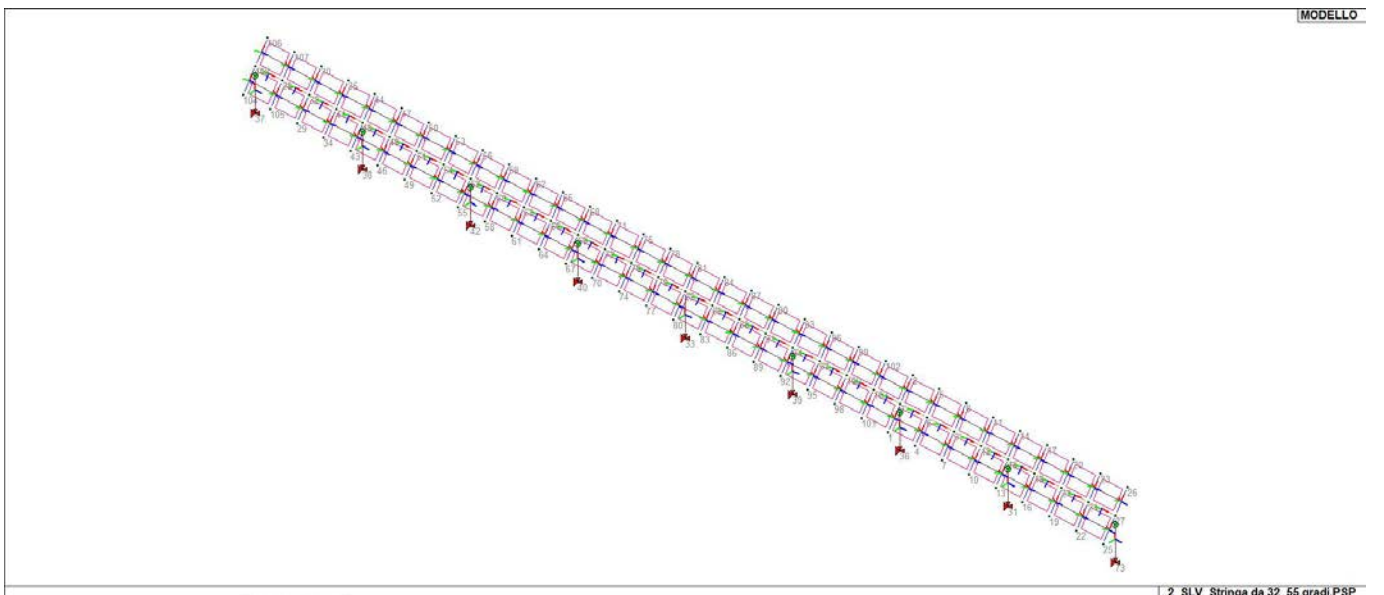
Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	3620.0	2046.9	109.9	2	3620.0	2173.1	290.1	3	3620.0	2110.0	200.0
4	3750.0	2046.9	109.9	5	3750.0	2173.1	290.1	6	3750.0	2110.0	200.0
7	3880.0	2046.9	109.9	8	3880.0	2173.1	290.1	9	3880.0	2110.0	200.0
10	4010.0	2046.9	109.9	11	4010.0	2173.1	290.1	12	4010.0	2110.0	200.0
13	4140.0	2046.9	109.9	14	4140.0	2173.1	290.1	15	4140.0	2110.0	200.0
16	4270.0	2046.9	109.9	17	4270.0	2173.1	290.1	18	4270.0	2110.0	200.0
19	4400.0	2046.9	109.9	20	4400.0	2173.1	290.1	21	4400.0	2110.0	200.0
22	4530.0	2046.9	109.9	23	4530.0	2173.1	290.1	24	4530.0	2110.0	200.0
25	4660.0	2046.9	109.9	26	4660.0	2173.1	290.1	27	4660.0	2110.0	200.0
28	630.0	2110.0	200.0	29	760.0	2046.9	109.9	30	760.0	2173.1	290.1
32	760.0	2110.0	200.0	34	890.0	2046.9	109.9	35	890.0	2173.1	290.1
41	890.0	2110.0	200.0	43	1020.0	2046.9	109.9	44	1020.0	2173.1	290.1
45	1020.0	2110.0	200.0	46	1150.0	2046.9	109.9	47	1150.0	2173.1	290.1
48	1150.0	2110.0	200.0	49	1280.0	2046.9	109.9	50	1280.0	2173.1	290.1
51	1280.0	2110.0	200.0	52	1410.0	2046.9	109.9	53	1410.0	2173.1	290.1
54	1410.0	2110.0	200.0	55	1540.0	2046.9	109.9	56	1540.0	2173.1	290.1
57	1540.0	2110.0	200.0	58	1670.0	2046.9	109.9	59	1670.0	2173.1	290.1
60	1670.0	2110.0	200.0	61	1800.0	2046.9	109.9	62	1800.0	2173.1	290.1
63	1800.0	2110.0	200.0	64	1930.0	2046.9	109.9	65	1930.0	2173.1	290.1
66	1930.0	2110.0	200.0	67	2060.0	2046.9	109.9	68	2060.0	2173.1	290.1
69	2060.0	2110.0	200.0	70	2190.0	2046.9	109.9	71	2190.0	2173.1	290.1
72	2190.0	2110.0	200.0	74	2320.0	2046.9	109.9	75	2320.0	2173.1	290.1

76	2320.0	2110.0	200.0	77	2450.0	2046.9	109.9	78	2450.0	2173.1	290.1
79	2450.0	2110.0	200.0	80	2580.0	2046.9	109.9	81	2580.0	2173.1	290.1
82	2580.0	2110.0	200.0	83	2710.0	2046.9	109.9	84	2710.0	2173.1	290.1
85	2710.0	2110.0	200.0	86	2840.0	2046.9	109.9	87	2840.0	2173.1	290.1
88	2840.0	2110.0	200.0	89	2970.0	2046.9	109.9	90	2970.0	2173.1	290.1
91	2970.0	2110.0	200.0	92	3100.0	2046.9	109.9	93	3100.0	2173.1	290.1
94	3100.0	2110.0	200.0	95	3230.0	2046.9	109.9	96	3230.0	2173.1	290.1
97	3230.0	2110.0	200.0	98	3360.0	2046.9	109.9	99	3360.0	2173.1	290.1
100	3360.0	2110.0	200.0	101	3490.0	2046.9	109.9	102	3490.0	2173.1	290.1
103	3490.0	2110.0	200.0	104	500.0	2046.9	109.9	105	630.0	2046.9	109.9
106	500.0	2173.1	290.1	107	630.0	2173.1	290.1	108	500.0	2110.0	200.0

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
31	4140.0	2110.0	0.0	v=111111						
33	2580.0	2110.0	0.0	v=111111						
36	3620.0	2110.0	0.0	v=111111						
37	500.0	2110.0	0.0	v=111111						
38	1020.0	2110.0	0.0	v=111111						
39	3100.0	2110.0	0.0	v=111111						
40	2060.0	2110.0	0.0	v=111111						
42	1540.0	2110.0	0.0	v=111111						
73	4660.0	2110.0	0.0	v=111111						



14_MOD_NUMERAZIONE_NODI

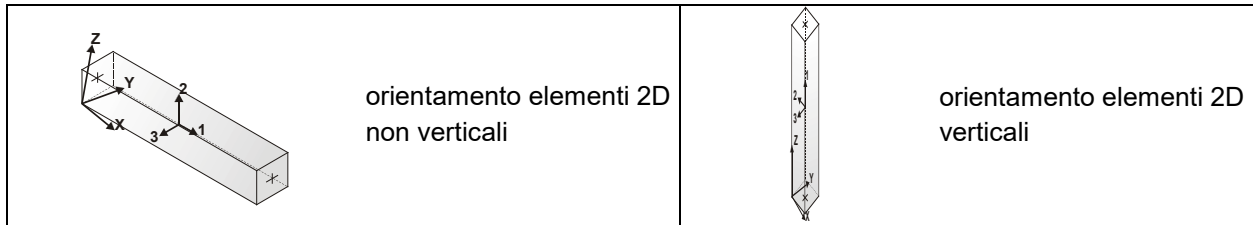
MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

TABELLA DATI TRAVI

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

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

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

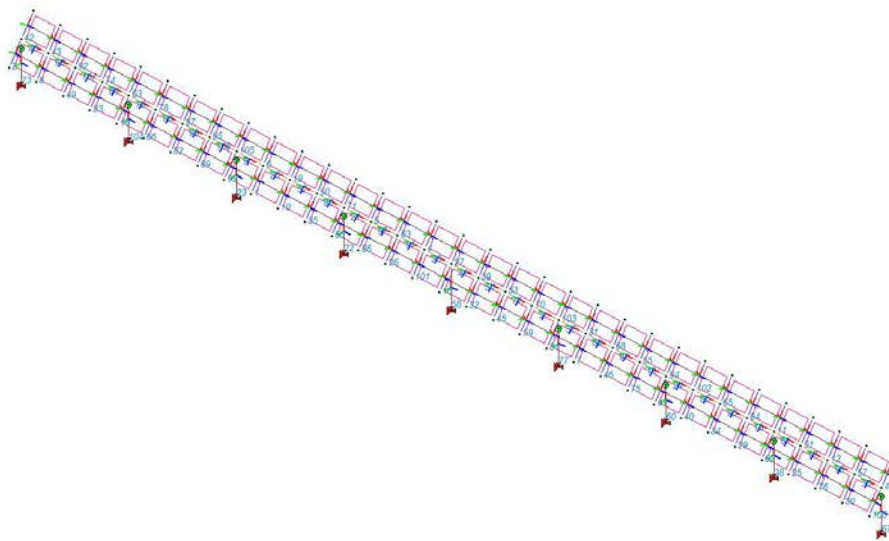


In particolare per ogni elemento viene indicato in tabella:

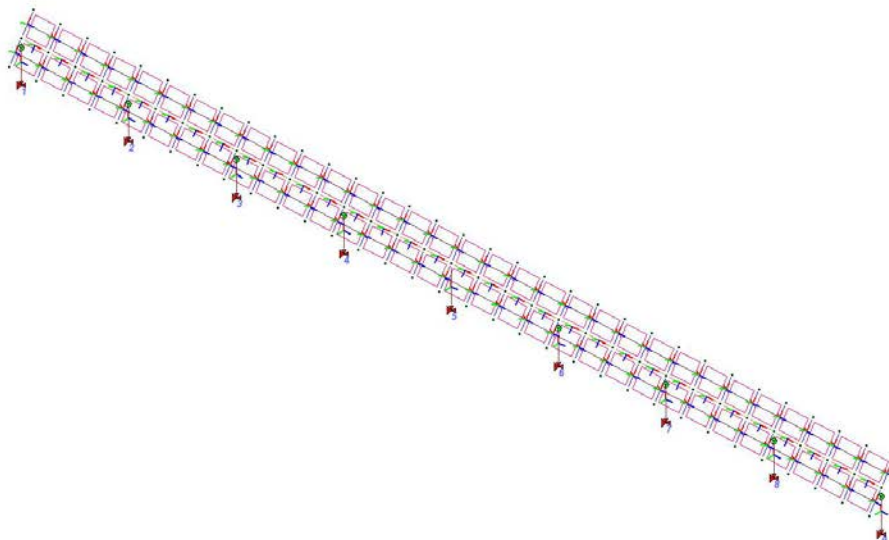
Elem.	numero dell'elemento
Note	codice di comportamento: trave, trave di fondazione, pilastro, asta, asta tesa, asta compressa,
Nodo I (J)	numero del nodo iniziale (finale)
Mat.	codice del materiale assegnato all'elemento
Sez.	codice della sezione assegnata all'elemento
Rotaz.	valore della rotazione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

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Trave	58	60	12	18	1					
2	Trave	104	108	12	18	1					
3	Trave	91	94	13	17	6	55.00				
4	Trave	79	78	12	18	1					
5	Trave	72	71	12	18	1					
6	Trave	60	59	12	18	1					
7	Trave	95	97	12	18	1					
8	Trave	105	28	12	18	1					
9	Trave	57	60	13	17	6	55.00				
10	Trave	61	63	12	18	1					
11	Trave	15	14	12	18	1					
12	Trave	21	20	12	18	1					
13	Trave	103	3	13	17	6	55.00				
14	Trave	76	79	13	17	6	55.00				
15	Trave	12	15	13	17	6	55.00				
16	Trave	80	82	12	18	1					
17	Trave	18	21	13	17	6	55.00				
18	Trave	43	45	12	18	1					
19	Trave	63	62	12	18	1					
20	Trave	60	63	13	17	6	55.00				
21	Trave	69	72	13	17	6	55.00				
22	Pilas.	40	69	12	16	1	90.00		000011		
23	Pilas.	42	57	12	16	1	90.00		000011		
24	Trave	3	6	13	17	6	55.00				
25	Trave	16	18	12	18	1					
26	Trave	74	76	12	18	1					
27	Trave	82	81	12	18	1					
28	Trave	79	82	13	17	6	55.00				
29	Trave	10	12	12	18	1					
30	Trave	22	24	12	18	1					
31	Trave	97	96	12	18	1					
32	Trave	83	85	12	18	1					

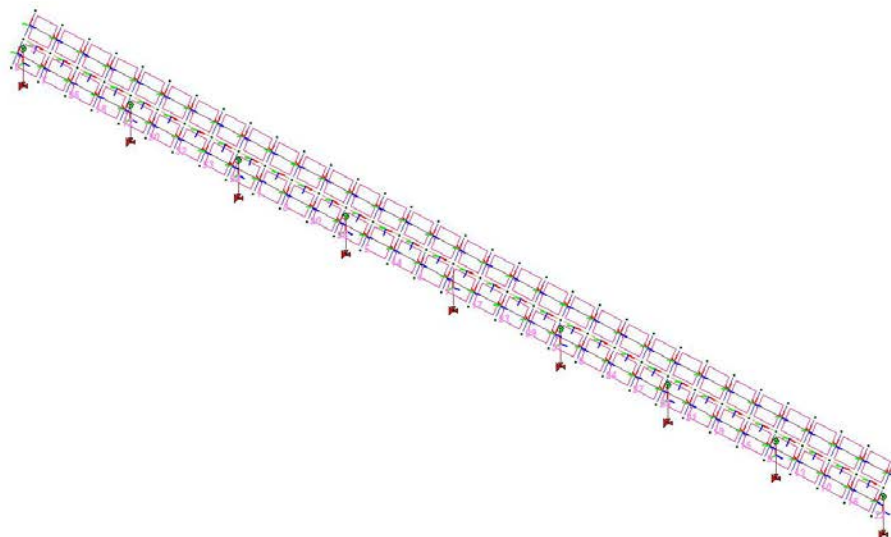
33	Trave	34	41	12	18	1		
34	Trave	7	9	12	18	1		
35	Trave	64	66	12	18	1		
36	Trave	24	27	13	17	6	55.00	
37	Trave	94	97	13	17	6	55.00	
38	Pilas.	31	15	12	16	1	90.00	000011
39	Trave	85	84	12	18	1		
40	Trave	4	6	12	18	1		
41	Trave	82	85	13	17	6	55.00	
42	Trave	108	106	12	18	1		
43	Trave	28	107	12	18	1		
44	Trave	27	26	12	18	1		
45	Trave	86	88	12	18	1		
46	Trave	98	100	12	18	1		
47	Trave	1	3	12	18	1		
48	Trave	108	28	13	17	6	55.00	
49	Trave	29	32	12	18	1		
50	Trave	66	65	12	18	1		
51	Trave	18	17	12	18	1		
52	Trave	63	66	13	17	6	55.00	
53	Trave	88	87	12	18	1		
54	Trave	85	88	13	17	6	55.00	
55	Trave	103	102	12	18	1		
56	Trave	67	69	12	18	1		
57	Trave	24	23	12	18	1		
58	Pilas.	33	82	12	16	1	90.00	
59	Trave	89	91	12	18	1		
60	Pilas.	36	3	12	16	1	90.00	000011
61	Trave	15	18	13	17	6	55.00	
62	Trave	13	15	12	18	1		
63	Trave	45	44	12	18	1		
64	Trave	41	45	13	17	6	55.00	
65	Trave	9	8	12	18	1		
66	Trave	46	48	12	18	1		
67	Pilas.	73	27	12	16	1	90.00	000011
68	Trave	100	99	12	18	1		
69	Trave	97	100	13	17	6	55.00	
70	Trave	91	90	12	18	1		
71	Trave	69	68	12	18	1		
72	Trave	88	91	13	17	6	55.00	
73	Pilas.	37	108	12	16	1	90.00	000011
74	Trave	41	35	12	18	1		
75	Trave	101	103	12	18	1		
76	Trave	19	21	12	18	1		
77	Pilas.	39	94	12	16	1	90.00	000011
78	Trave	48	47	12	18	1		
79	Trave	45	48	13	17	6	55.00	
80	Trave	66	69	13	17	6	55.00	
81	Trave	92	94	12	18	1		
82	Trave	49	51	12	18	1		
83	Trave	76	75	12	18	1		
84	Trave	12	11	12	18	1		
85	Trave	6	9	13	17	6	55.00	
86	Trave	70	72	12	18	1		
87	Trave	51	50	12	18	1		
88	Trave	48	51	13	17	6	55.00	
89	Trave	52	54	12	18	1		
90	Trave	9	12	13	17	6	55.00	
91	Trave	100	103	13	17	6	55.00	
92	Trave	32	30	12	18	1		
93	Trave	28	32	13	17	6	55.00	
94	Trave	3	2	12	18	1		
95	Trave	54	53	12	18	1		
96	Trave	51	54	13	17	6	55.00	
97	Trave	72	76	13	17	6	55.00	
98	Trave	21	24	13	17	6	55.00	
99	Trave	55	57	12	18	1		
100	Trave	25	27	12	18	1		
101	Trave	77	79	12	18	1		
102	Trave	6	5	12	18	1		
103	Trave	94	93	12	18	1		
104	Pilas.	38	45	12	16	1	90.00	000011
105	Trave	57	56	12	18	1		
106	Trave	54	57	13	17	6	55.00	
107	Trave	32	41	13	17	6	55.00	



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_PILASTRATE



15_MOD_NUMERAZIONE_D2_TRAVATE

MODELLAZIONE DELLA STRUTTURA: ELEMENTI SOLAIO-PANNELLO

LEGENDA TABELLA DATI SOLAI-PANNELLI

Il programma utilizza per la modellazione elementi a tre o più nodi denominati in generale solaio o pannello.

Ogni elemento solaio-pannello è individuato da una poligonale di nodi 1,2, ..., N.

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

L'elemento balcone è derivato dall'elemento solaio.

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

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

Id.Arch.	Identificativo dell' archivio
Tipo	Tipo di carico Variab. Carico variabile generico Var. rid. Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...) Neve Carico di neve
G1k	carico permanente (comprensivo del peso proprio)
G2k	carico permanente non strutturale e non compiutamente definito
Qk	carico variabile
Fatt. A	fattore di riduzione del carico variabile (0.5 o 0.75) per tipo "Var.rid."
S sis.	fattore di riduzione del carico variabile per la definizione delle masse sismiche per D.M. 96 (vedi NOTA sul capitolo "normativa di riferimento")
Psi 0	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore raro
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore frequente
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: per valore quasi

permanente	
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: per la definizione delle masse sismiche
Fatt. Fi	Coefficiente di correlazione dei carichi per edifici

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

Elem	numero dell'elemento
Tipo	codice di comportamento S elemento utilizzato solo per scarico C elemento utilizzato per scarico e per modellazione piano rigido P elemento utilizzato come pannello M scarico monodirezionale B scarico bidirezionale
Id.Arch.	Identificativo dell' archivio
Mat	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Orditura	angolo (rispetto all'asse X) della direzione dei travetti principali
Gk	carico permanente solaio (comprensivo del peso proprio)
Qk	carico variabile solaio
Nodi	numero dei nodi che definiscono l'elemento (5 per riga)

Nel caso in cui si sia proceduto alla progettazione dei solai con le tensioni ammissibili vengono riportate le massime tensioni nell'elemento (massima compressione nel calcestruzzo, massima tensione nell'acciaio, massima tensione tangenziale); nel caso in cui si sia proceduto alla progettazione con il metodo degli stati limite vengono riportati il rapporto x/d e le verifiche per sollecitazioni proporzionali nonché le verifiche in esercizio.

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

Elem.	numero identificativo dell'elemento
Stato	Codici di verifica relativi alle tensioni normali e alle tensioni tangenziali
Note	Viene riportato il codice relativo alla sezione(s) e relativo al materiale(m);
Pos.	Ascissa del punto di verifica
F ist, F infi	Frecce istantanee e a tempo infinito
Momento	Momento flettente
Taglio	Sollecitazione di taglio
Af inf.	Area di armatura longitudinale posta all'intradosso della trave
Af sup.	Area di armatura longitudinale posta all'estradosso della trave
AfV	Area dell'armatura atta ad assorbire le azioni di taglio
Beff	Base della sezione di cls per l'assorbimento del taglio
simboli utilizzati con il metodo delle tensioni ammissibili:	
sc max	Massima tensione di compressione del calcestruzzo
sf max	Massima tensione nell'acciaio
tau max	Massima tensione tangenziale nel cls
simboli utilizzati con il metodo degli stati limite:	
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
verif.	rapporto S_d/S_u con sollecitazioni ultime proporzionali: valore minore o uguale a 1 per verifica positiva
Verif.V	rapporto S_d/S_u con sollecitazioni taglianti proporzionali valore minore o uguale a 1 per verifica positiva
rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione f_{ck} in combinazioni

	rare [normalizzato a 1]
rFfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni frequenti [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni frequenti [normalizzato a 1]
rFyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]

Nel caso in cui si sia proceduto alla verifica delle tamponature secondo il D.M. 17.01.2018 - §7.2.3 viene riportata una tabella riassuntiva delle verifiche degli elementi pannello. La verifica confronta i momenti sollecitanti indotti dal sisma con i momenti resistenti, secondo tre ipotesi, due basate sulla resistenza a pressoflessione della tamponatura ed una basata sul cinematismo a seguito della formazione di tre cerniere plastiche sulla tamponatura (rif. Ufficio di Vigilanza sulle Costruzioni, Provincia di Terni).

Qualora la tamponatura sia di tipo antiespulsione (nelle due possibili varianti ordinaria o armata) viene condotta una verifica con meccanismo ad arco con degrado di resistenza. La verifica confronta le pressioni sollecitanti indotte dal sisma con le pressioni resistenti che la tamponatura sviluppa attraverso il meccanismo ad arco. La verifica considera anche il degrado di resistenza dovuto al danneggiamento nel piano della tamponatura.

Per quest'ultima tamponatura sono disponibili, in funzione del materiale impiegato (materiale [52] o materiale [53]):

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

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

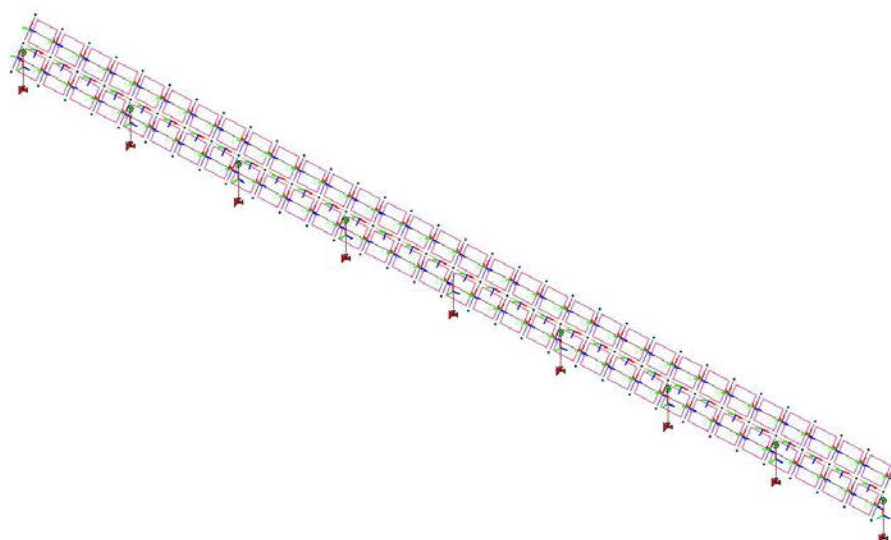
(rif. Rapporti di Prova redatti dal Dipartimento ICEA - Università degli Studi di Padova di test sperimentali condotti sul sistema Tamponatura Antiespulsione di Cis Edil)

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

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

ID Arch.	Tipo	G1k	G2k	Qk	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
		daN/cm2	daN/cm2	daN/cm2							
9	Neve	2.00e-03	1.00e-03	5.00e-03		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k	G2k	Qk	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
						daN/cm2	daN/cm2	daN/cm2					
1	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	74	76	72	70	
2	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	76	75	71	72	
3	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	4	6	3	1	
4	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	6	5	2	3	
5	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	7	9	6	4	
6	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	9	8	5	6	
7	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	98	100	97	95	
8	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	100	99	96	97	
9	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	10	12	9	7	
10	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	12	11	8	9	
11	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	13	15	12	10	
12	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	15	14	11	12	
13	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	52	54	51	49	
14	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	54	53	50	51	
15	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	16	18	15	13	
16	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	18	17	14	15	
17	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	19	21	18	16	
18	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	21	20	17	18	
19	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	77	79	76	74	
20	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	79	78	75	76	
21	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	22	24	21	19	
22	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	24	23	20	21	
23	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	25	27	24	22	
24	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	27	26	23	24	
25	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	101	103	100	98	
26	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	103	102	99	100	
27	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	55	57	54	52	
28	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	57	56	53	54	
29	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	80	82	79	77	
30	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	82	81	78	79	
31	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	1	3	103	101	
32	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	3	2	102	103	
33	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	105	28	108	104	
34	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	28	107	106	108	
35	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	58	60	57	55	
36	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	60	59	56	57	
37	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	83	85	82	80	
38	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	85	84	81	82	
39	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	29	32	28	105	
40	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	32	30	107	28	
41	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	61	63	60	58	
42	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	63	62	59	60	
43	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	86	88	85	83	
44	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	88	87	84	85	
45	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	34	41	32	29	
46	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	41	35	30	32	
47	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	64	66	63	61	
48	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	66	65	62	63	
49	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	89	91	88	86	
50	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	91	90	87	88	
51	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	43	45	41	34	
52	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	45	44	35	41	
53	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	67	69	66	64	
54	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	69	68	65	66	
55	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	92	94	91	89	
56	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	94	93	90	91	
57	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	46	48	45	43	
58	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	48	47	44	45	
59	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	70	72	69	67	
60	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	72	71	68	69	
61	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	95	97	94	92	
62	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	97	96	93	94	
63	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	49	51	48	46	
64	SM	9	m=12	1.0	0.0	2.00e-03	1.00e-03	5.00e-03	51	50	47	48	



17_MOD_NUMERAZIONE_SOLAI

MODELLAZIONE DELLE AZIONI

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 locale su trave

Id	Tipo	Pos.	f1	f2	f3	m1	m2	m3
		cm	daN/cm	daN/cm	daN/cm	daN	daN	daN
21	DL:F2i=-1.20 F2f=-1.20	0.0	0.0	-1.20	0.0	0.0	0.0	0.0
		0.0	0.0	-1.20	0.0	0.0	0.0	0.0
22	DL:F2i=1.50 F2f=1.50	0.0	0.0	1.50	0.0	0.0	0.0	0.0
		0.0	0.0	1.50	0.0	0.0	0.0	0.0

SCHEMATIZZAZIONE DEI CASI DI CARICO

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:

	Sigla	Tipo	Descrizione
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:

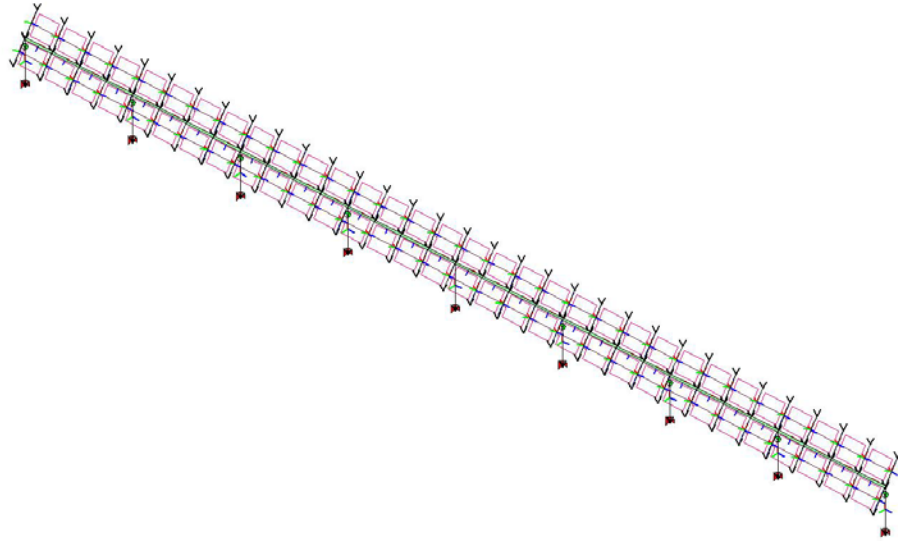
Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).

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.

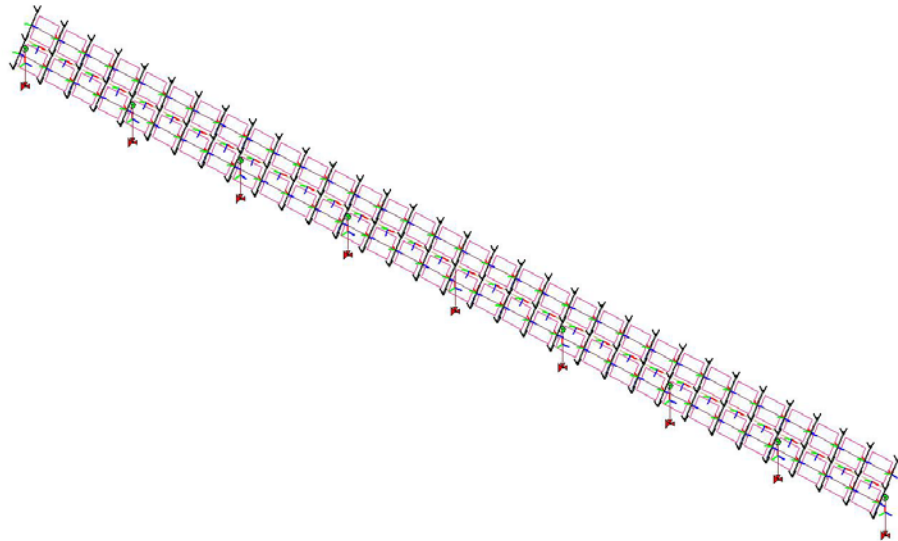
Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione 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	Gsk	CDC=G1sk (permanente solai-coperture)	
3	Gsk	CDC=G2sk (permanente solai-coperture n.c.d.)	
4	Qnk	CDC=Qnk (carico da neve)	
5	Qk	CDC=Qkv+ (vento in pressione)	Azioni applicate:
			D2 :da 1 a 2 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 4 a 8 Azione : DL:F2i=-1.20 F2f=-1.20

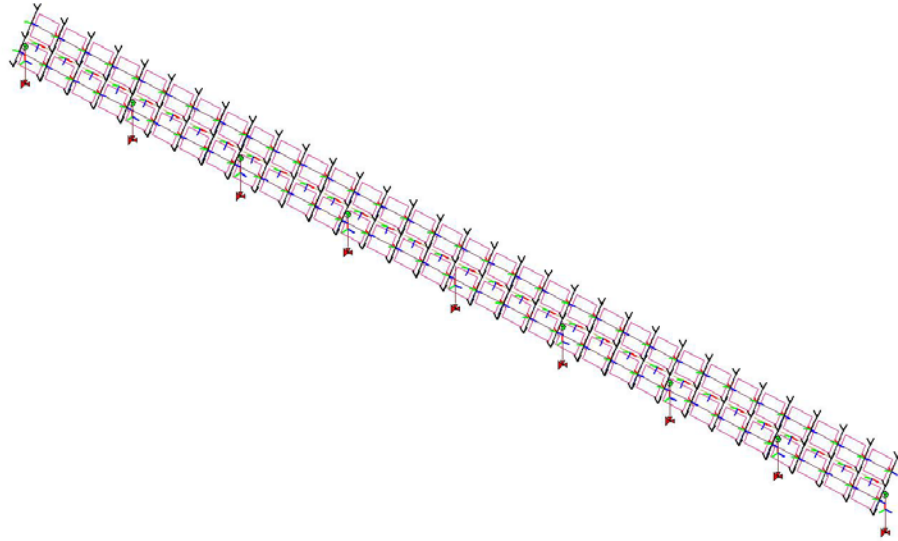
CDC	Tipo	Sigla Id	Note
			D2 :da 10 a 12 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 16 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 18 a 19 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 25 a 27 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 29 a 35 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 39 a 40 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 42 a 47 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 49 a 51 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 53 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 55 a 57 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 59 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 62 a 63 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 65 a 66 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 68 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 70 a 71 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 74 a 76 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 78 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 81 a 84 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 86 a 87 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 89 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 92 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 94 a 95 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 :da 99 a 103 Azione : DL:F2i=-1.20 F2f=-1.20
			D2 : 105 Azione : DL:F2i=-1.20 F2f=-1.20
6	Qk	CDC=Qkv- (vento in depressione)	Azioni applicate:
			D2 :da 1 a 2 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 4 a 8 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 10 a 12 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 16 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 18 a 19 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 25 a 27 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 29 a 35 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 39 a 40 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 42 a 47 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 49 a 51 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 53 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 55 a 57 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 59 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 62 a 63 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 65 a 66 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 68 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 70 a 71 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 74 a 76 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 78 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 81 a 84 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 86 a 87 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 89 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 92 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 94 a 95 Azione : DL:F2i=1.50 F2f=1.50
			D2 :da 99 a 103 Azione : DL:F2i=1.50 F2f=1.50
			D2 : 105 Azione : DL:F2i=1.50 F2f=1.50
7	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
			partecipazione:1.00 per 2 CDC=G1sk (permanente solai-coperture)
			partecipazione:1.00 per 3 CDC=G2sk (permanente solai-coperture n.c.d.)
			partecipazione:1.00 per 4 CDC=Qnk (carico da neve)
8	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
9	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
10	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
11	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
12	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico
13	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
14	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico



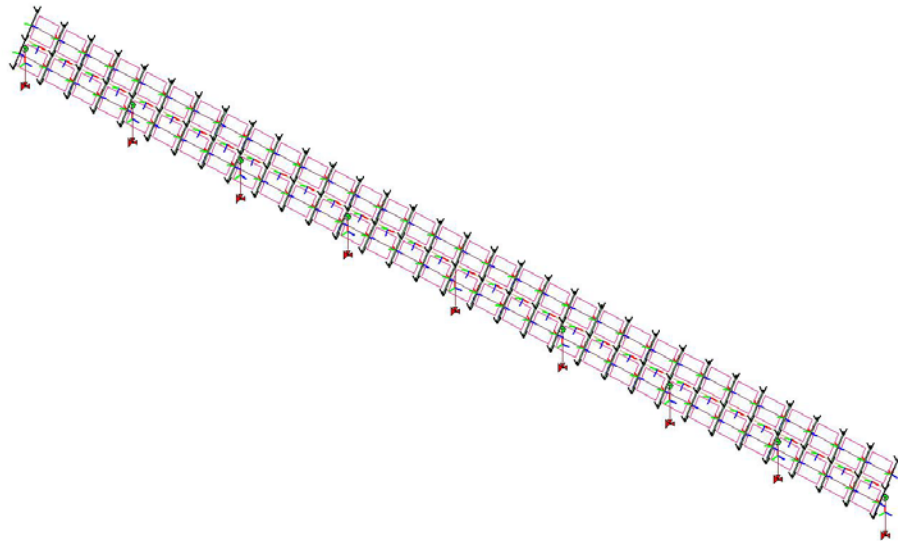
22_CDC_001_CDC=Ggk (peso proprio della struttura)



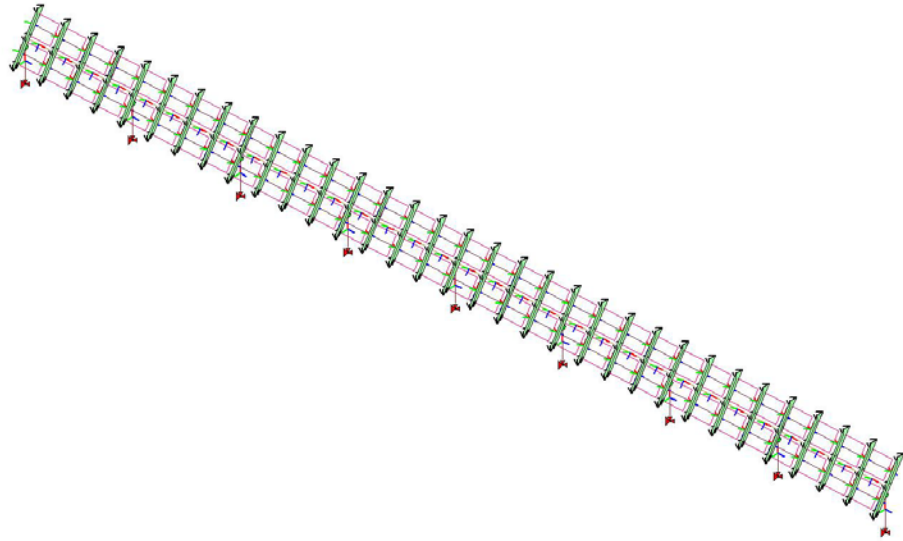
22_CDC_002_CDC=G1sk (permanente solai-coperture)



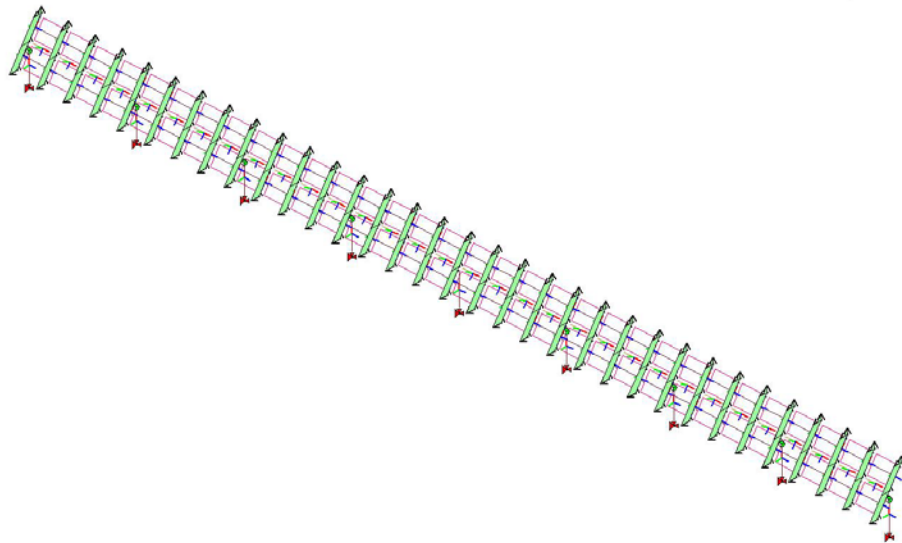
22_CDC_003_CDC=G2sk (permanente solai-coperture n.c.d.)



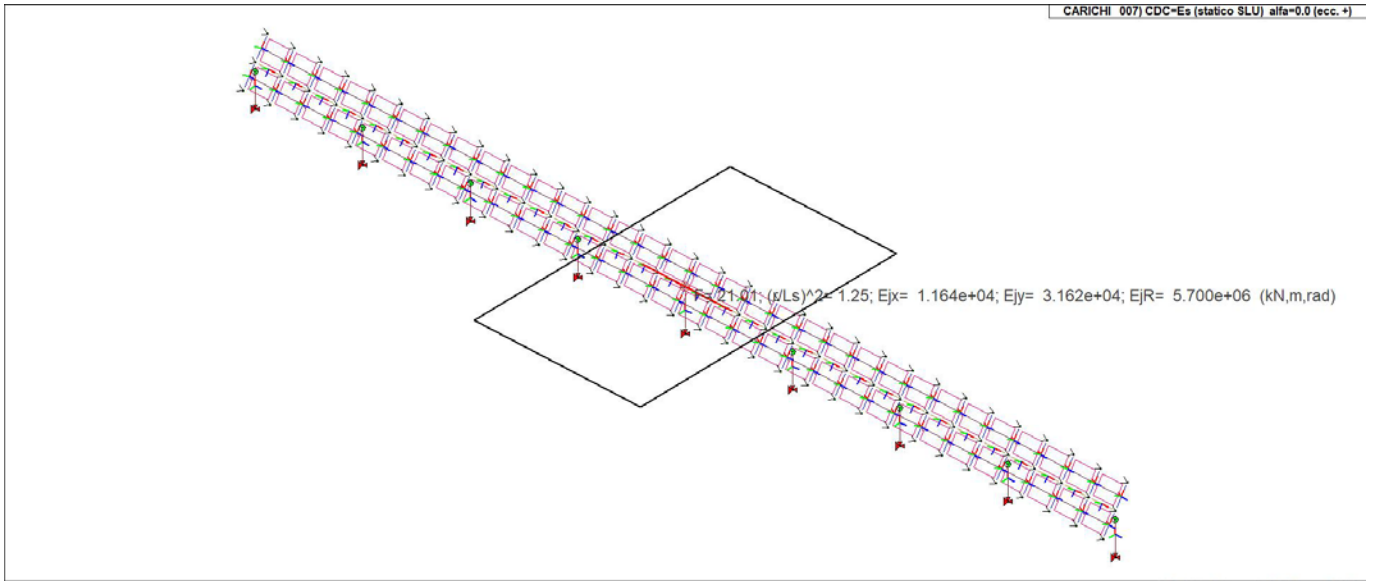
22_CDC_004_CDC=Qnk (carico da neve)



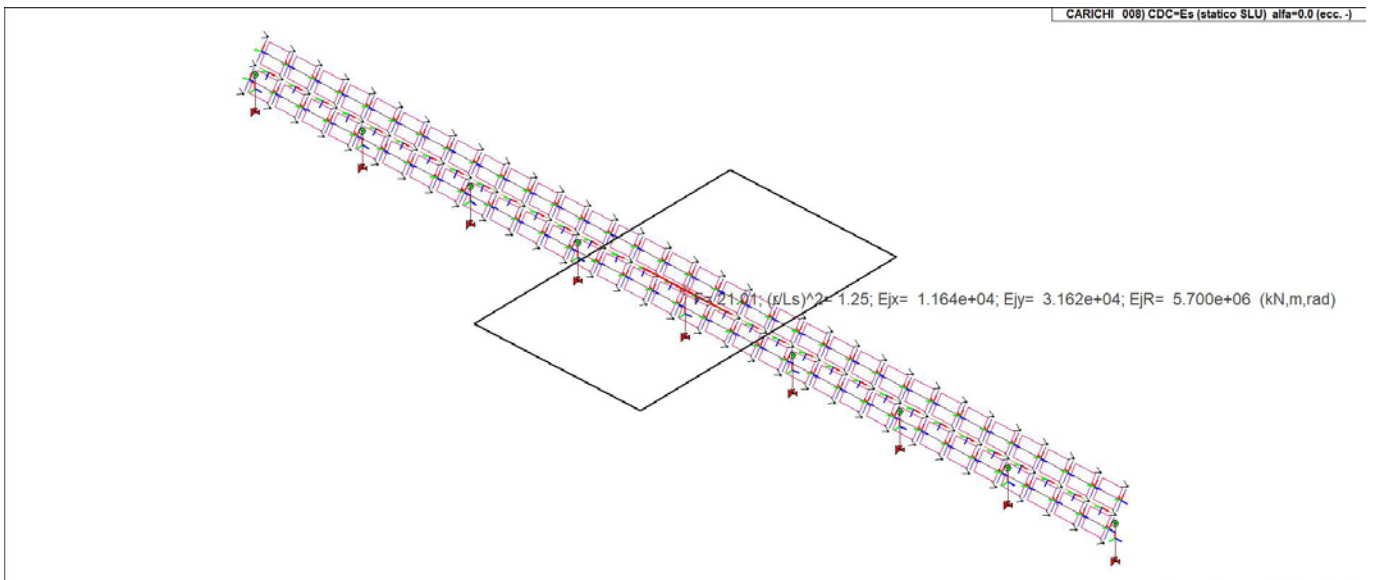
22_CDC_005_CDC=Qkv+ (vento in pressione)



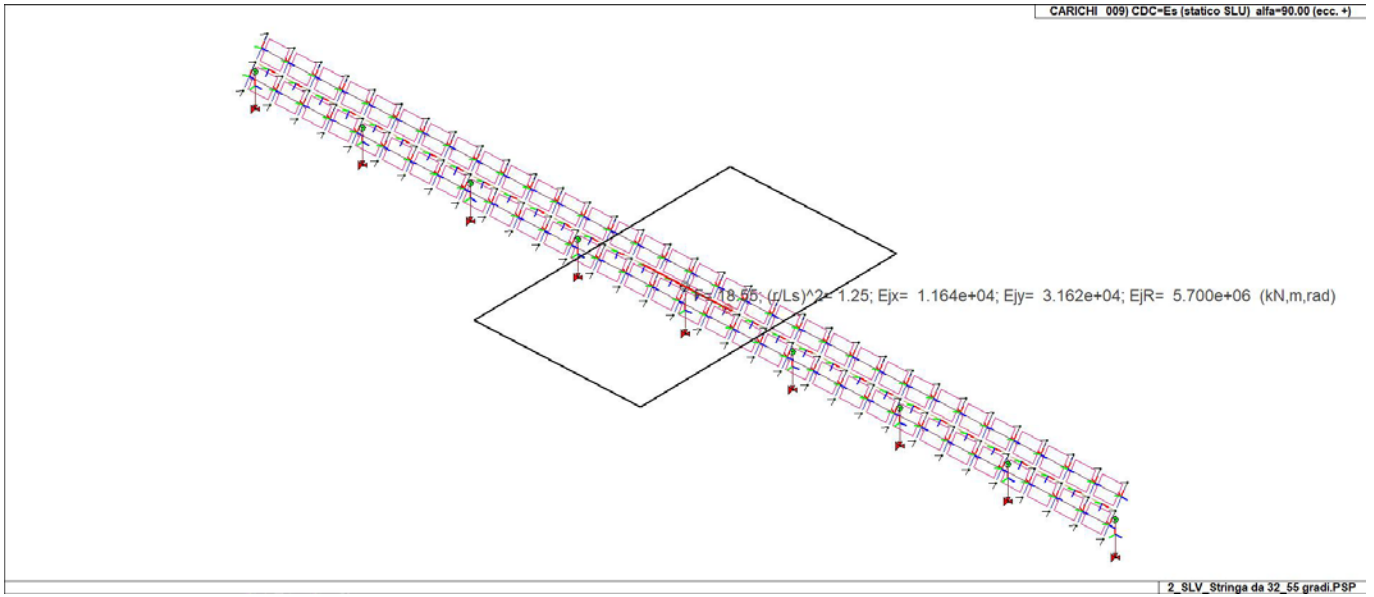
22_CDC_006_CDC=Qkv- (vento in depressione)



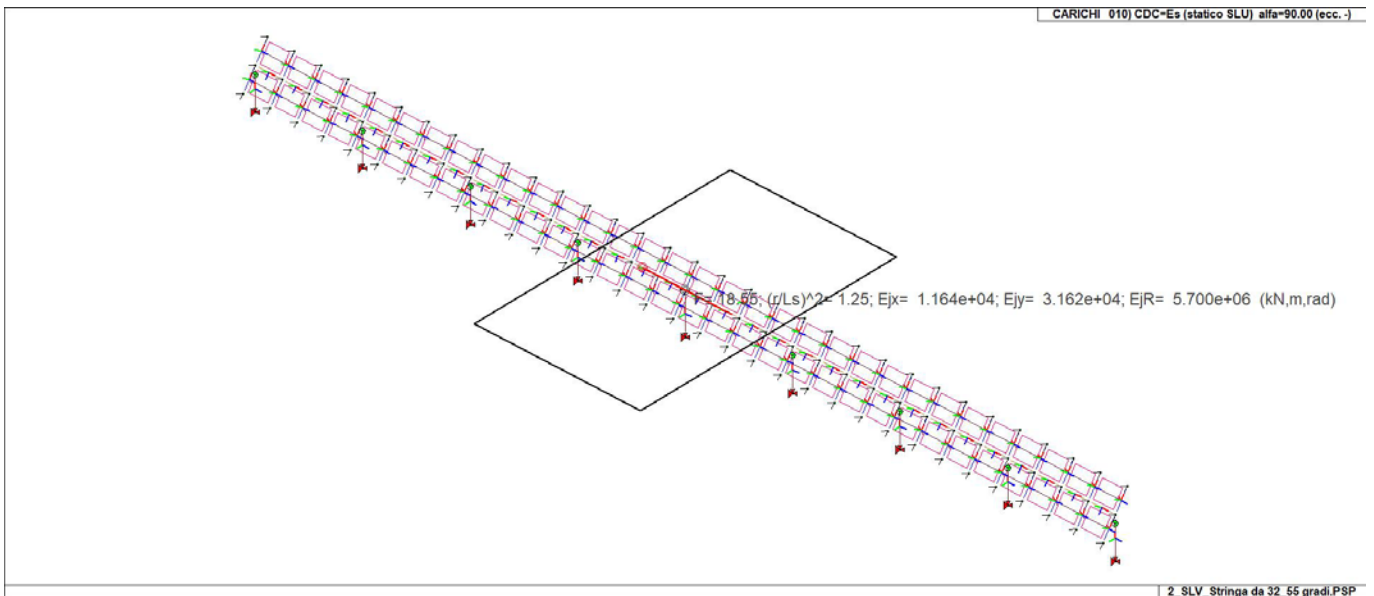
22_CDC_007_CDC=Es (statico SLU) alfa=0.0 (ecc. +)



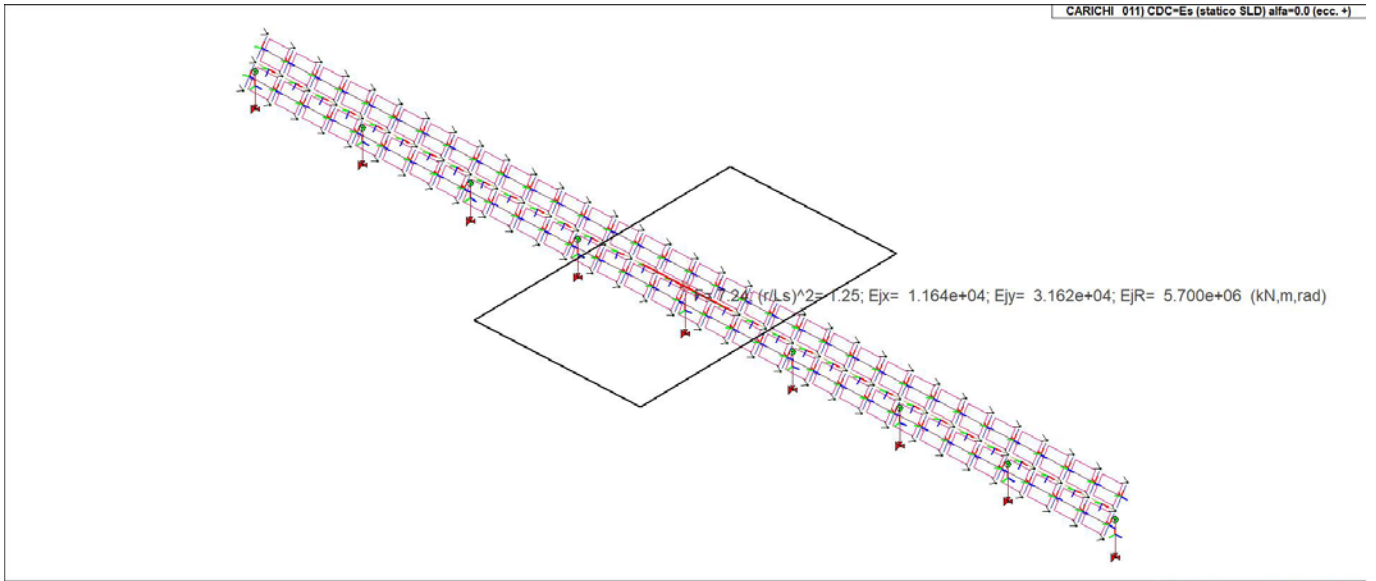
22_CDC_008_CDC=Es (statico SLU) alfa=0.0 (ecc. -)



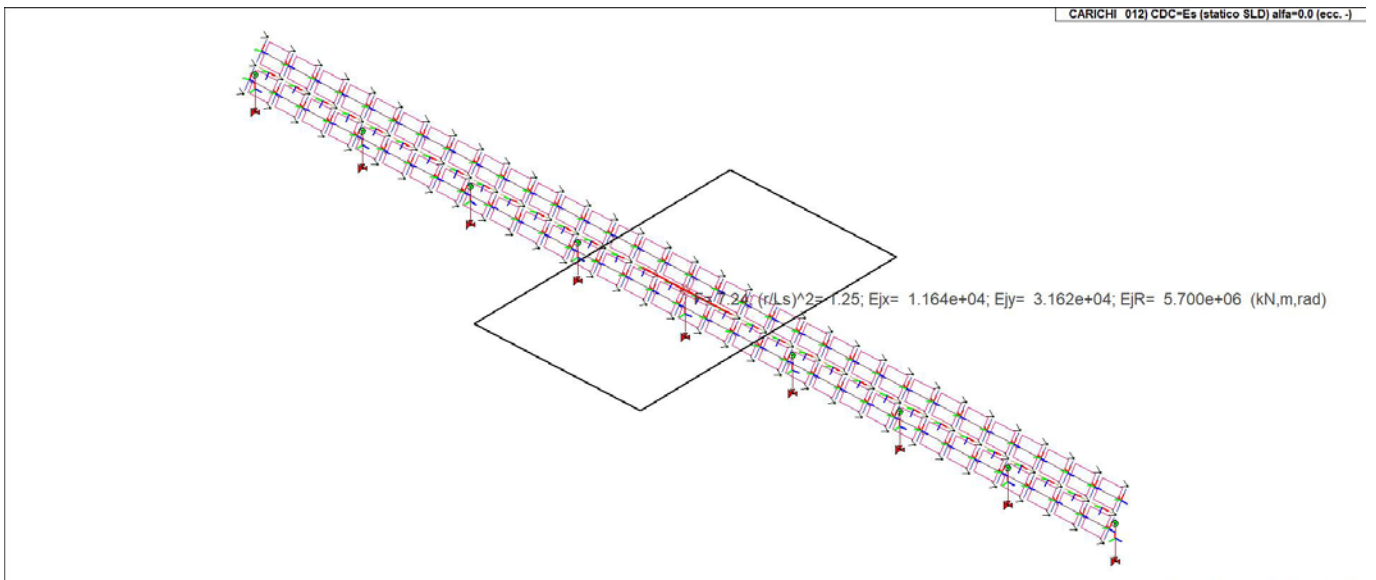
22_CDC_009_CDC=Es (statico SLU) alfa=90.00 (ecc. +)



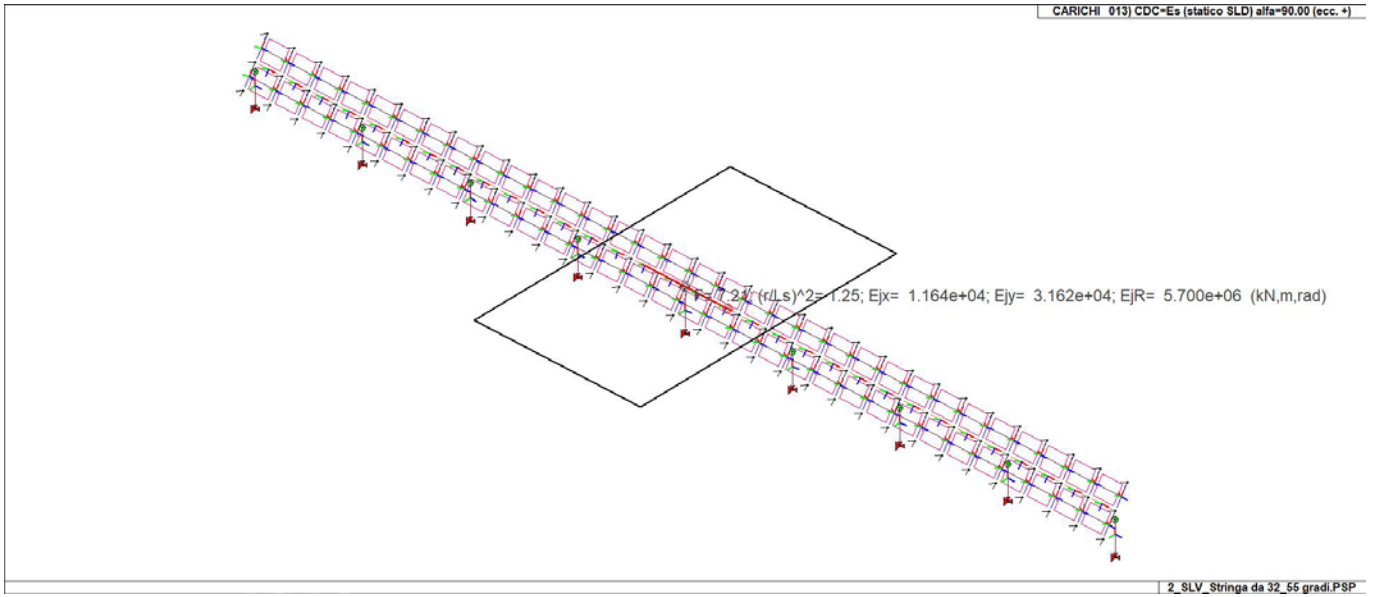
22_CDC_010_CDC=Es (statico SLU) alfa=90.00 (ecc. -)



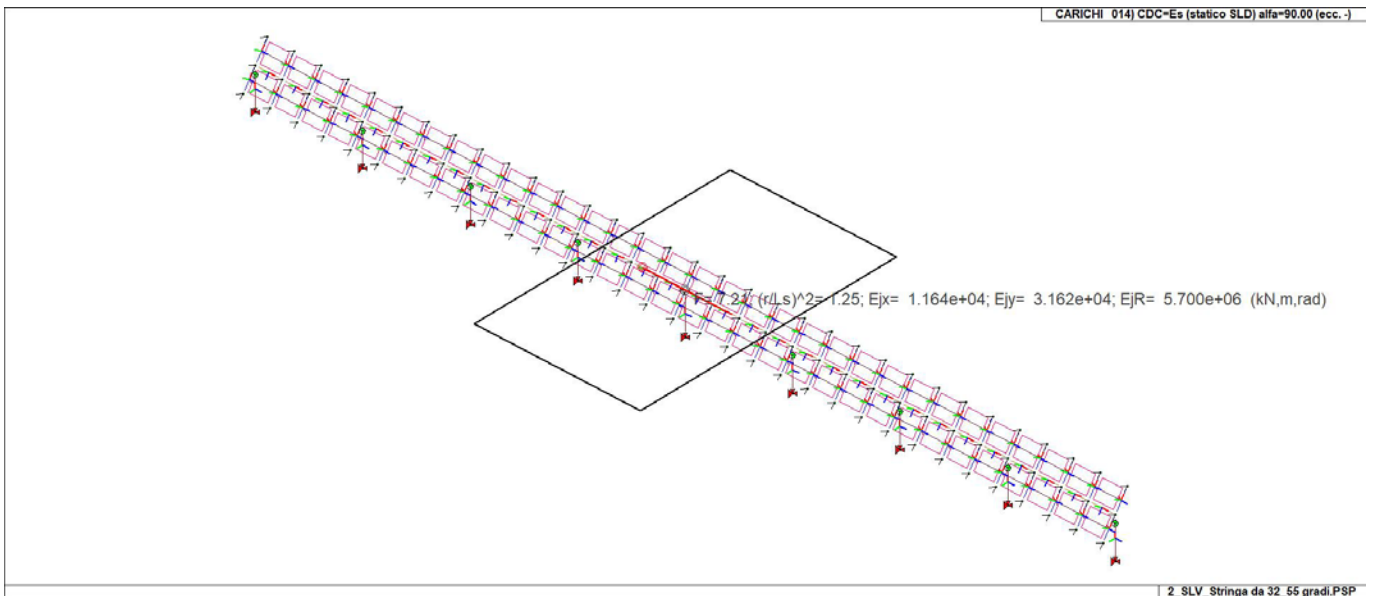
22_CDC_011_CDC=Es (statico SLD) alfa=0.0 (ecc. +)



22_CDC_012_CDC=Es (statico SLD) alfa=0.0 (ecc. -)



22_CDC_013_CDC=Es (statico SLD) alfa=90.00 (ecc. +)



22_CDC_014_CDC=Es (statico SLD) alfa=90.00 (ecc. -)

DEFINIZIONE DELLE COMBINAZIONI

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

$$\gamma G_1 \cdot G_1 + \gamma G_2 \cdot G_2 + \gamma P \cdot P + \gamma Q_1 \cdot Q_{k1} + \gamma Q_2 \cdot \psi_{02} \cdot Q_{k2} + \gamma Q_3 \cdot \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione caratteristica (rara) SLE

$$G_1 + G_2 + P + Q_{k1} + \psi_{02} \cdot Q_{k2} + \psi_{03} \cdot Q_{k3} + \dots$$

Combinazione frequente SLE

$$G_1 + G_2 + P + \psi_{11} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

Combinazione quasi permanente SLE

$$G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \psi_{23} \cdot Q_{k3} + \dots$$

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

$$E + G_1 + G_2 + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

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

$$G_1 + G_2 + A_d + P + \psi_{21} \cdot Q_{k1} + \psi_{22} \cdot Q_{k2} + \dots$$

Dove:

NTC 2018 Tabella 2.5.1

Destinazione d'uso/azione	ψ_0	ψ_1	ψ_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 $\leq 30kN$)	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 $\leq 1000 m$	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 2.6.1

		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 (SLV sism.) 1	SI
2	SLU	Comb. SLU A1 (SLV sism.) 2	SI
3	SLU	Comb. SLU A1 (SLV sism.) 3	SI
4	SLU	Comb. SLU A1 (SLV sism.) 4	SI
5	SLU	Comb. SLU A1 (SLV sism.) 5	SI
6	SLU	Comb. SLU A1 (SLV sism.) 6	SI
7	SLU	Comb. SLU A1 (SLV sism.) 7	SI
8	SLU	Comb. SLU A1 (SLV sism.) 8	SI
9	SLU	Comb. SLU A1 (SLV sism.) 9	SI
10	SLU	Comb. SLU A1 (SLV sism.) 10	SI
11	SLU	Comb. SLU A1 (SLV sism.) 11	SI
12	SLU	Comb. SLU A1 (SLV sism.) 12	SI
13	SLU	Comb. SLU A1 (SLV sism.) 13	SI
14	SLU	Comb. SLU A1 (SLV sism.) 14	SI
15	SLU	Comb. SLU A1 (SLV sism.) 15	SI
16	SLU	Comb. SLU A1 (SLV sism.) 16	SI
17	SLU	Comb. SLU A1 (SLV sism.) 17	SI
18	SLU	Comb. SLU A1 (SLV sism.) 18	SI
19	SLU	Comb. SLU A1 (SLV sism.) 19	SI
20	SLU	Comb. SLU A1 (SLV sism.) 20	SI
21	SLU	Comb. SLU A1 (SLV sism.) 21	SI
22	SLU	Comb. SLU A1 (SLV sism.) 22	SI
23	SLU	Comb. SLU A1 (SLV sism.) 23	SI
24	SLU	Comb. SLU A1 (SLV sism.) 24	SI
25	SLU	Comb. SLU A1 (SLV sism.) 25	SI
26	SLU	Comb. SLU A1 (SLV sism.) 26	SI
27	SLU	Comb. SLU A1 (SLV sism.) 27	SI
28	SLU	Comb. SLU A1 (SLV sism.) 28	SI
29	SLU	Comb. SLU A1 (SLV sism.) 29	SI
30	SLU	Comb. SLU A1 (SLV sism.) 30	SI
31	SLU	Comb. SLU A1 (SLV sism.) 31	SI
32	SLU	Comb. SLU A1 (SLV sism.) 32	SI
33	SLE(sis)	Comb. SLE (SLD Danno sism.) 33	SI
34	SLE(sis)	Comb. SLE (SLD Danno sism.) 34	SI
35	SLE(sis)	Comb. SLE (SLD Danno sism.) 35	SI
36	SLE(sis)	Comb. SLE (SLD Danno sism.) 36	SI
37	SLE(sis)	Comb. SLE (SLD Danno sism.) 37	SI
38	SLE(sis)	Comb. SLE (SLD Danno sism.) 38	SI
39	SLE(sis)	Comb. SLE (SLD Danno sism.) 39	SI
40	SLE(sis)	Comb. SLE (SLD Danno sism.) 40	SI
41	SLE(sis)	Comb. SLE (SLD Danno sism.) 41	SI
42	SLE(sis)	Comb. SLE (SLD Danno sism.) 42	SI
43	SLE(sis)	Comb. SLE (SLD Danno sism.) 43	SI
44	SLE(sis)	Comb. SLE (SLD Danno sism.) 44	SI
45	SLE(sis)	Comb. SLE (SLD Danno sism.) 45	SI
46	SLE(sis)	Comb. SLE (SLD Danno sism.) 46	SI
47	SLE(sis)	Comb. SLE (SLD Danno sism.) 47	SI
48	SLE(sis)	Comb. SLE (SLD Danno sism.) 48	SI
49	SLE(sis)	Comb. SLE (SLD Danno sism.) 49	SI
50	SLE(sis)	Comb. SLE (SLD Danno sism.) 50	SI
51	SLE(sis)	Comb. SLE (SLD Danno sism.) 51	SI
52	SLE(sis)	Comb. SLE (SLD Danno sism.) 52	SI
53	SLE(sis)	Comb. SLE (SLD Danno sism.) 53	SI
54	SLE(sis)	Comb. SLE (SLD Danno sism.) 54	SI
55	SLE(sis)	Comb. SLE (SLD Danno sism.) 55	SI
56	SLE(sis)	Comb. SLE (SLD Danno sism.) 56	SI
57	SLE(sis)	Comb. SLE (SLD Danno sism.) 57	SI
58	SLE(sis)	Comb. SLE (SLD Danno sism.) 58	SI
59	SLE(sis)	Comb. SLE (SLD Danno sism.) 59	SI
60	SLE(sis)	Comb. SLE (SLD Danno sism.) 60	SI
61	SLE(sis)	Comb. SLE (SLD Danno sism.) 61	SI
62	SLE(sis)	Comb. SLE (SLD Danno sism.) 62	SI
63	SLE(sis)	Comb. SLE (SLD Danno sism.) 63	SI
64	SLE(sis)	Comb. SLE (SLD Danno sism.) 64	SI

AZIONE SISMICA

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):

a_g : accelerazione orizzontale massima del terreno;

F_o : 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;

Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
II	50.0	1.0	50.0	B	T2

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)

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

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

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

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

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

Lo spettro di risposta elastico in accelerazione della componente orizzontale del moto sismico, S_e , è definito dalle seguenti espressioni:

$$\begin{aligned}
 0 \leq T < T_b & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left[\frac{T}{T_b} + \frac{1}{\eta \cdot F_o} \left(1 - \frac{T}{T_b} \right) \right] \\
 T_b \leq T < T_c & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \\
 T_c \leq T < T_d & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left(\frac{T_c}{T} \right) \\
 T_d \leq T & \quad S_e(T) = a_g \cdot S \cdot \eta \cdot F_o \cdot \left(\frac{T_c \cdot T_d}{T^2} \right)
 \end{aligned}$$

Dove per sottosuolo di categoria **A** i coefficienti S_s e C_c valgono 1; mentre per le categorie di sottosuolo B, C, D, E i coefficienti S_s e C_c vengono calcolati mediante le espressioni riportate nella seguente Tabella

Categoria sottosuolo	S_s	C_c
A	1,00	1,00
B	$1,00 \leq 1,40 - 0,40 \cdot F_o \cdot \frac{a_g}{g} \leq 1,20$	$1,10 \cdot (T_c^*)^{-0,20}$
C	$1,00 \leq 1,70 - 0,60 \cdot F_o \cdot \frac{a_g}{g} \leq 1,50$	$1,05 \cdot (T_c^*)^{-0,33}$
D	$0,90 \leq 2,40 - 1,50 \cdot F_o \cdot \frac{a_g}{g} \leq 1,80$	$1,25 \cdot (T_c^*)^{-0,50}$
E	$1,00 \leq 2,00 - 1,10 \cdot F_o \cdot \frac{a_g}{g} \leq 1,60$	$1,15 \cdot (T_c^*)^{-0,40}$

Per tenere conto delle condizioni topografiche e in assenza di specifiche analisi di risposta sismica locale, si utilizzano

i valori del coefficiente topografico S_T riportati nella seguente Tabella

Categoria topografica	Ubicazione dell'opera o dell'intervento	S_T
T1	-	1,0
T2	In corrispondenza della sommità del pendio	1,2
T3	In corrispondenza della cresta di un rilievo con pendenza media minore o uguale a 30°	1,2
T4	In corrispondenza della cresta di un rilievo con pendenza media maggiore di 30°	1,4

Lo spettro di risposta elastico in accelerazione della componente verticale del moto sismico, S_{ve} , è definito dalle espressioni:

$$0 \leq T < T_B \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left[\frac{T}{T_B} + \frac{1}{\eta \cdot F_o} \left(1 - \frac{T}{T_B} \right) \right]$$

$$T_B \leq T < T_C \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v$$

$$T_C \leq T < T_D \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left(\frac{T_C}{T} \right)$$

$$T_D \leq T \quad S_{ve}(T) = a_g \cdot S \cdot \eta \cdot F_v \cdot \left(\frac{T_C \cdot T_D}{T^2} \right)$$

I valori di S_s , T_B , T_C e T_D , sono riportati nella seguente Tabella

Categoria di sottosuolo	S_s	T_B	T_C	T_D
A, B, C, D, E	1,0	0,05 s	0,15 s	1,0 s

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	15.386	41.222	
31441	15.351	41.220	2.926
31442	15.418	41.219	2.688
31220	15.419	41.269	5.890
31219	15.353	41.270	5.988

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	30.1	0.050	2.416	0.290
SLD	63.0	50.3	0.063	2.534	0.320
SLV	10.0	474.6	0.187	2.456	0.416
SLC	5.0	974.8	0.259	2.436	0.423

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.050	1.440	2.416	0.726	0.136	0.409	1.798
SLD	0.063	1.440	2.534	0.856	0.147	0.442	1.850
SLV	0.187	1.440	2.456	1.435	0.182	0.545	2.350
SLC	0.259	1.377	2.436	1.675	0.184	0.553	2.637

RISULTATI ANALISI SISMICHE

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
Amplificazione ND		Coefficiente di amplificazione q/q_{ND} delle azioni sismiche (solo per elementi progettati in campo non dissipativo)
Fattore di sito S		Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD		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 T1	proprio	Periodo proprio di vibrazione della struttura
Coefficiente Lambda		Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata Sd(T1)	spettro	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata Se(T1)	spettro	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata S (Tb-Tc)	spettro	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

Nel caso di elementi progettati in campo non dissipativo vengono adottate le sollecitazioni calcolate con un fattore q_{ND} ricavato come da 7.3.2 in funzione del fattore di comportamento q utilizzato per la struttura: $1 < q_{ND} = 2/3 * q < 1.5$

Il coefficiente di amplificazione delle azioni sismiche rispetto alle azioni calcolate con il fattore di comportamento globale viene indicato nelle relative tabelle.

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/Ls (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/Ls (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 ϵ_T (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità $1000 \cdot \epsilon_T/h$ 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 ϵ_T , ϵ_P e ϵ_D degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso in unità $1000 \cdot \epsilon_T/h$ 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 dE, area ridotta e dimensione A2, 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) $\text{Sig } s < f_{yk}$
- 3) $\text{Gam } t < 5$
- 4) $\text{Gam } s < \text{Gam}^*$ (caratteristica dell' elastomero)
- 5) $\text{Gam } s < 2$
- 6) $V < 0.5 V_{cr}$

CDC	Tipo	Sigla Id	Note
7	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.663 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.197 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.663

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
290.11	763.62	763.62	794.31	2580.00	2173.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200.00	2101.16	2864.79	3170.29	2580.00	2110.00	0.0	0.0	2580.00	2110.00	1.250	0.0	0.0
109.89	289.26	3154.05	794.31	2580.00	2046.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	3154.05		4758.92									

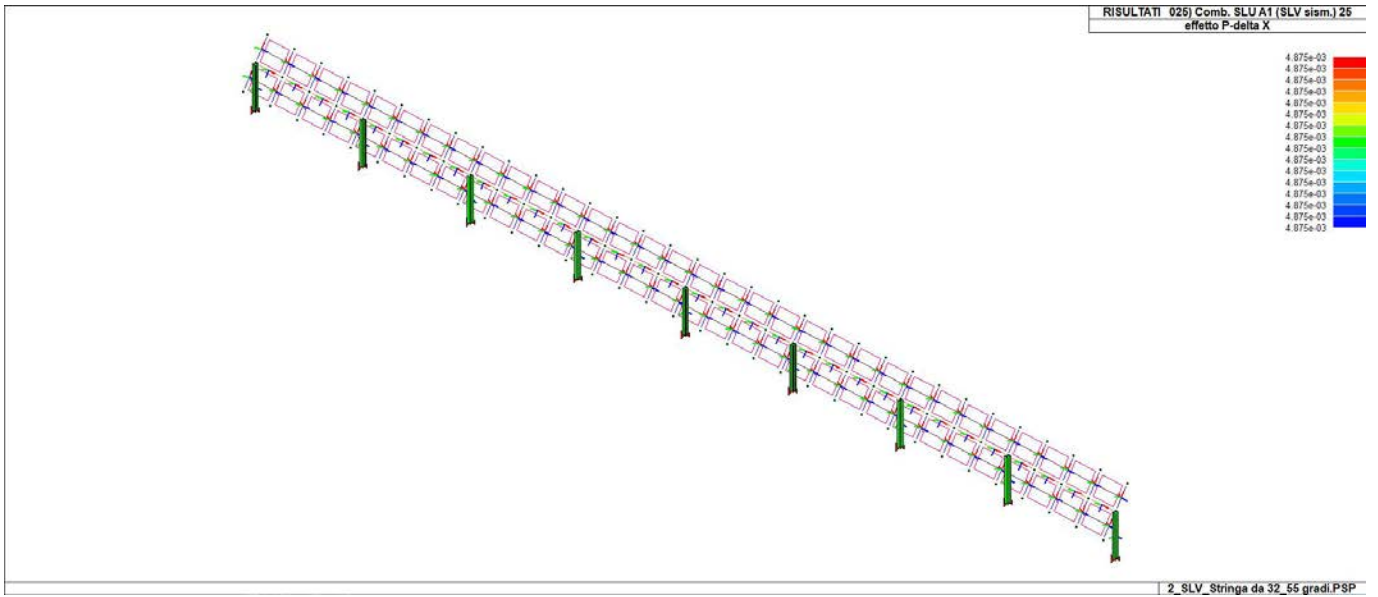
CDC	Tipo	Sigla Id	Note
8	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.663 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.197 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.663

Quota	Forza Sismica	Tot. parziale	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	daN	daN	cm	cm	cm	cm	cm	cm			
290.11	763.62	763.62	794.31	2580.00	2173.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200.00	2101.16	2864.79	3170.29	2580.00	2110.00	0.0	0.0	2580.00	2110.00	1.250	0.0	0.0
109.89	289.26	3154.05	794.31	2580.00	2046.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	3154.05		4758.92									

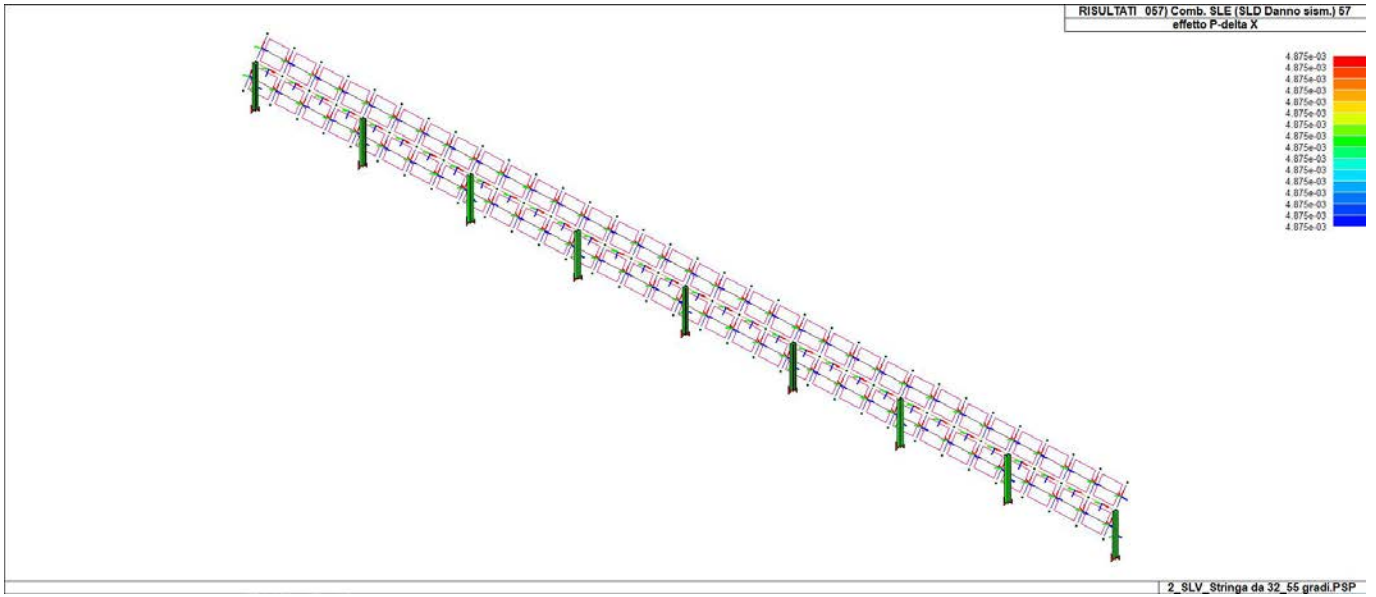
CDC	Tipo	Sigla Id	Note
9	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. +)	
			categoria suolo: B
			fattore di sito S = 1.440
			ordinata spettro (tratto Tb-Tc) = 0.663 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.146 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.585

	58	0.93	0.19	200.0	60	0.53	0.11	200.0	67	0.36	0.07	200.0
	73	0.44	0.09	200.0	77	0.60	0.12	200.0	104	0.75	0.15	200.0
58	22	0.66	0.13	200.0	23	0.65	0.13	200.0	38	0.53	0.11	200.0
	58	0.93	0.19	200.0	60	0.53	0.11	200.0	67	0.36	0.07	200.0
	73	0.43	0.09	200.0	77	0.60	0.12	200.0	104	0.75	0.15	200.0
59	22	0.66	0.13	200.0	23	0.65	0.13	200.0	38	0.53	0.11	200.0
	58	0.93	0.19	200.0	60	0.53	0.11	200.0	67	0.36	0.07	200.0
	73	0.43	0.09	200.0	77	0.60	0.12	200.0	104	0.75	0.15	200.0
60	22	0.66	0.13	200.0	23	0.65	0.13	200.0	38	0.53	0.11	200.0
	58	0.93	0.19	200.0	60	0.53	0.11	200.0	67	0.36	0.07	200.0
	73	0.44	0.09	200.0	77	0.60	0.12	200.0	104	0.75	0.15	200.0
61	22	0.66	0.13	200.0	23	0.65	0.13	200.0	38	0.53	0.11	200.0
	58	0.93	0.19	200.0	60	0.53	0.11	200.0	67	0.36	0.07	200.0
	73	0.44	0.09	200.0	77	0.60	0.12	200.0	104	0.75	0.15	200.0
62	22	0.66	0.13	200.0	23	0.65	0.13	200.0	38	0.53	0.11	200.0
	58	0.93	0.19	200.0	60	0.53	0.11	200.0	67	0.36	0.07	200.0
	73	0.43	0.09	200.0	77	0.60	0.12	200.0	104	0.75	0.15	200.0
63	22	0.66	0.13	200.0	23	0.65	0.13	200.0	38	0.53	0.11	200.0
	58	0.93	0.19	200.0	60	0.53	0.11	200.0	67	0.36	0.07	200.0
	73	0.43	0.09	200.0	77	0.60	0.12	200.0	104	0.75	0.15	200.0
64	22	0.66	0.13	200.0	23	0.65	0.13	200.0	38	0.53	0.11	200.0
	58	0.93	0.19	200.0	60	0.53	0.11	200.0	67	0.36	0.07	200.0
	73	0.44	0.09	200.0	77	0.60	0.12	200.0	104	0.75	0.15	200.0

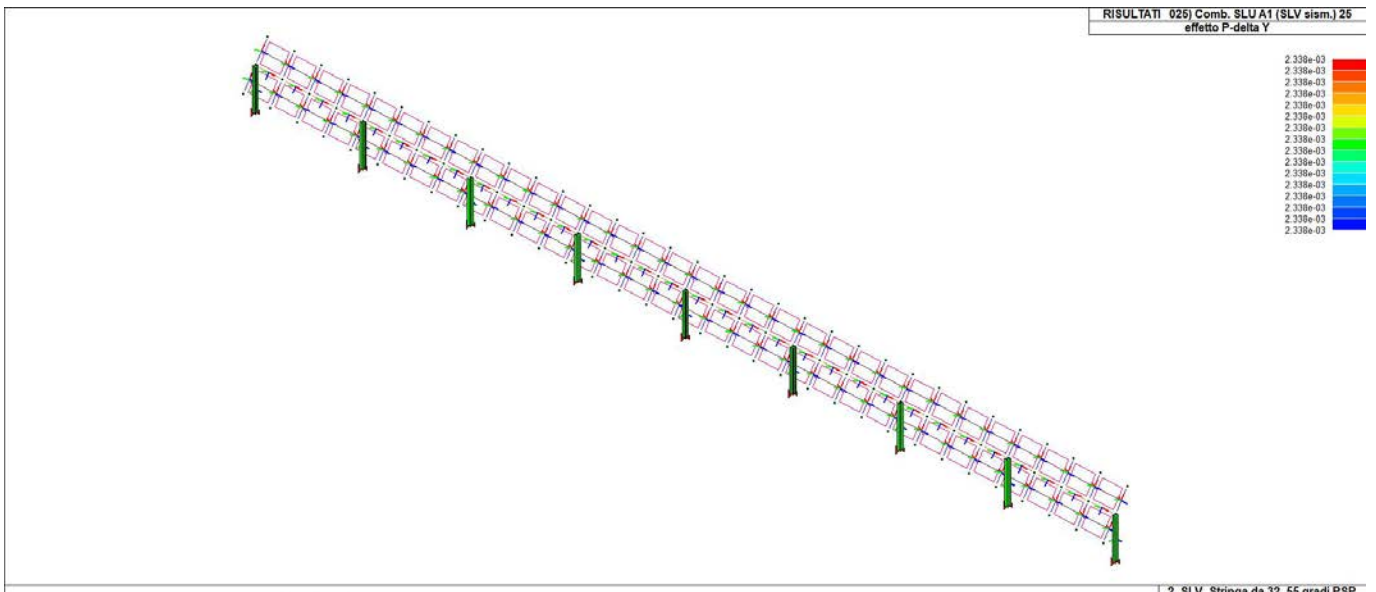
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 1.08



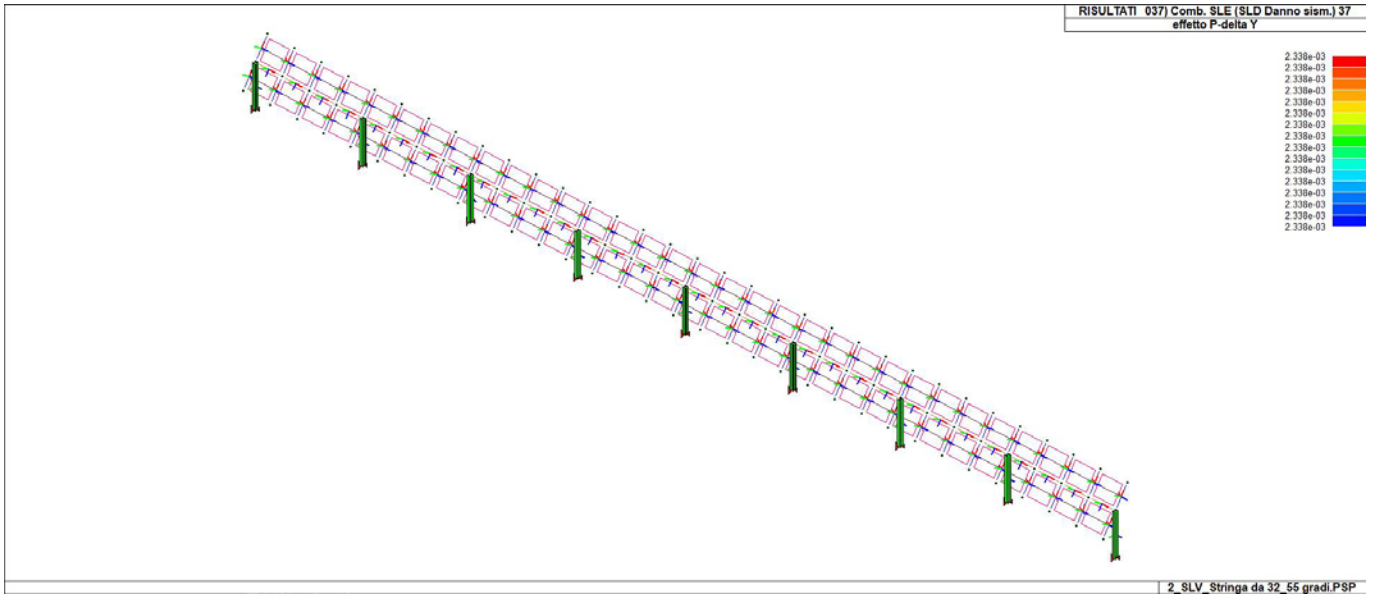
31_RIS_PDELTA_X_025_Comb. SLU A1 (SLV sism.) 25



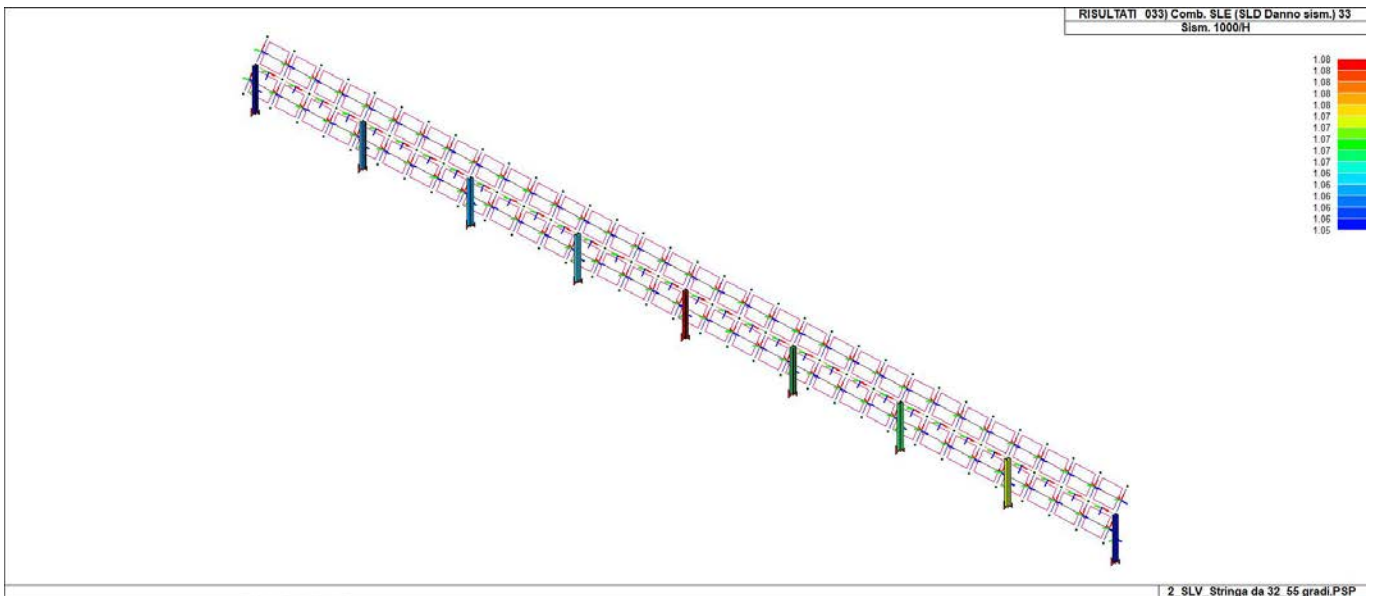
31_RIS_PDELTA_X_057_Comb. SLE (SLD Danno sism.) 57



31_RIS_PDELTA_Y_025_Comb. SLU A1 (SLV sism.) 25



31_RIS_PDELTAY_037_Comb. SLE (SLD Danno sism.) 37



31_RIS_SLE_033_Comb. SLE (SLD Danno sism.) 33

RISULTATI NODALI

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 cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	4	0.64	-0.30	0.27	-4.25e-03	-2.51e-04	2.39e-04
1	17	-0.18	1.09	-0.97	0.02	-6.05e-05	-1.66e-04
1	19	0.19	1.09	-0.97	0.02	-1.48e-04	-4.19e-05
1	36	0.23	-0.11	0.10	-1.49e-03	-1.55e-04	8.37e-05
1	49	-0.06	0.43	-0.38	6.11e-03	-8.93e-05	-6.19e-05
1	51	0.07	0.43	-0.38	6.11e-03	-1.20e-04	-1.90e-05
2	2	-0.71	0.53	-0.31	-5.01e-03	-1.05e-03	5.91e-04
2	18	-0.23	1.72	-1.00	-0.02	-3.89e-04	2.72e-04
2	20	0.19	1.72	-1.00	-0.02	1.80e-04	-6.39e-05
2	34	-0.25	0.22	-0.13	-2.11e-03	-4.32e-04	2.05e-04
2	50	-0.08	0.68	-0.40	-6.41e-03	-2.03e-04	9.84e-05
2	52	0.06	0.68	-0.40	-6.41e-03	-6.28e-06	-1.74e-05
3	1	-0.61	-0.09	-1.46e-03	4.57e-03	-2.59e-04	-2.79e-05
3	17	-0.18	-0.29	-1.42e-03	0.02	-1.51e-04	-1.03e-04
3	33	-0.21	-0.03	-1.42e-03	1.78e-03	-1.58e-04	-1.10e-05
3	49	-0.06	-0.11	-1.41e-03	5.93e-03	-1.20e-04	-4.01e-05
4	1	-0.67	0.35	-0.34	5.05e-03	6.10e-04	-3.35e-04
4	19	0.13	1.12	-1.06	0.02	2.81e-04	-3.63e-04
4	33	-0.25	0.15	-0.16	2.13e-03	4.44e-04	-1.21e-04
4	51	0.02	0.45	-0.44	6.47e-03	3.31e-04	-1.44e-04
5	3	0.73	-0.53	0.26	4.76e-03	1.20e-03	-6.87e-04
5	20	0.21	1.85	-1.09	-0.02	6.10e-04	2.57e-04
5	35	0.27	-0.20	0.07	1.69e-03	6.48e-04	-2.43e-04
5	52	0.09	0.73	-0.45	-6.77e-03	4.44e-04	1.07e-04
6	1	-0.61	-0.10	-0.02	4.85e-03	3.09e-04	-1.24e-04
6	3	0.61	-0.10	-0.04	4.85e-03	4.05e-04	-1.31e-04
6	17	-0.18	-0.34	-0.03	0.02	3.43e-04	-4.24e-04
6	33	-0.21	-0.04	-0.03	1.89e-03	3.41e-04	-4.85e-05
6	35	0.21	-0.04	-0.04	1.89e-03	3.74e-04	-5.07e-05
6	49	-0.06	-0.13	-0.03	6.29e-03	3.52e-04	-1.65e-04
7	4	0.65	-0.32	0.24	-4.76e-03	-3.92e-04	2.33e-04
7	19	0.19	1.16	-1.13	0.02	-1.68e-04	-2.54e-05
7	36	0.23	-0.12	0.05	-1.69e-03	-1.82e-04	8.15e-05
7	51	0.07	0.46	-0.48	6.78e-03	-1.05e-04	-1.26e-05
8	2	-0.69	0.60	-0.38	-5.53e-03	-8.46e-04	5.87e-04
8	20	0.19	1.96	-1.17	-0.02	1.61e-04	-8.08e-05
8	34	-0.24	0.24	-0.19	-2.31e-03	-3.39e-04	2.03e-04
8	52	0.06	0.77	-0.50	-7.09e-03	8.71e-06	-2.40e-05
9	1	-0.61	-0.11	-0.04	5.09e-03	-5.15e-05	-2.22e-05
9	3	0.61	-0.11	-0.07	5.09e-03	-9.13e-05	-3.03e-05
9	17	-0.18	-0.37	-0.05	0.02	-6.55e-05	-8.62e-05
9	33	-0.21	-0.04	-0.05	1.98e-03	-6.46e-05	-8.80e-06
9	35	0.21	-0.04	-0.06	1.98e-03	-7.83e-05	-1.16e-05
9	49	-0.06	-0.15	-0.05	6.60e-03	-6.94e-05	-3.36e-05
10	7	0.68	0.30	-0.29	4.19e-03	-7.42e-04	2.72e-04
10	19	0.24	1.24	-1.14	0.02	-4.97e-04	2.85e-04
10	39	0.26	0.13	-0.13	1.79e-03	-5.13e-04	9.68e-05
10	51	0.11	0.49	-0.46	7.05e-03	-4.28e-04	1.08e-04
11	5	-0.72	-0.42	0.23	3.82e-03	-1.14e-03	6.30e-04
11	20	0.18	2.01	-1.17	-0.02	-1.68e-04	-3.92e-04

11	37	-0.27	-0.15	0.07	1.32e-03	-6.49e-04	2.20e-04
11	52	0.04	0.79	-0.48	-7.36e-03	-3.15e-04	-1.45e-04
12	1	-0.61	-0.11	-0.01	5.30e-03	-3.44e-04	7.27e-05
12	7	0.61	-0.07	-0.03	3.97e-03	-4.41e-04	6.15e-05
12	17	-0.18	-0.36	-0.02	0.02	-3.78e-04	2.25e-04
12	33	-0.21	-0.04	-0.02	2.06e-03	-3.76e-04	2.80e-05
12	39	0.21	-0.03	-0.02	1.54e-03	-4.09e-04	2.42e-05
12	49	-0.06	-0.14	-0.02	6.87e-03	-3.87e-04	8.74e-05
13	1	-0.68	0.40	-0.36	5.67e-03	7.31e-04	-2.59e-04
13	17	-0.24	1.30	-1.16	0.02	4.94e-04	-2.50e-04
13	19	0.15	1.30	-1.16	0.02	2.91e-04	-1.28e-04
13	33	-0.26	0.17	-0.15	2.37e-03	5.09e-04	-9.19e-05
13	49	-0.11	0.52	-0.46	7.27e-03	4.28e-04	-9.45e-05
13	51	0.03	0.52	-0.46	7.27e-03	3.58e-04	-5.26e-05
14	3	0.72	-0.59	0.34	5.38e-03	1.15e-03	-6.22e-04
14	18	-0.18	2.04	-1.19	-0.02	1.66e-04	3.59e-04
14	20	0.23	2.04	-1.19	-0.02	6.20e-04	1.96e-05
14	35	0.27	-0.22	0.12	1.93e-03	6.54e-04	-2.17e-04
14	50	-0.04	0.81	-0.47	-7.59e-03	3.14e-04	1.32e-04
14	52	0.10	0.81	-0.47	-7.59e-03	4.71e-04	1.51e-05
15	1	-0.61	-0.10	-1.61e-03	5.47e-03	4.30e-04	-4.84e-05
15	3	0.61	-0.10	-1.64e-03	5.47e-03	3.55e-04	-6.50e-05
15	19	0.18	-0.35	-1.63e-03	0.02	3.81e-04	-1.92e-04
15	33	-0.21	-0.04	-1.62e-03	2.13e-03	4.06e-04	-1.92e-05
15	35	0.21	-0.04	-1.63e-03	2.13e-03	3.80e-04	-2.49e-05
15	51	0.06	-0.14	-1.62e-03	7.09e-03	3.89e-04	-7.44e-05
16	1	-0.74	0.40	-0.48	5.80e-03	1.34e-03	-3.41e-04
16	17	-0.31	1.28	-1.30	0.02	1.12e-03	-5.33e-04
16	33	-0.32	0.17	-0.27	2.42e-03	1.14e-03	-1.24e-04
16	49	-0.17	0.51	-0.58	7.44e-03	1.06e-03	-2.05e-04
17	3	0.78	-0.62	0.24	5.52e-03	1.81e-03	-7.10e-04
17	18	-0.14	2.14	-1.33	-0.02	7.95e-04	6.44e-04
17	35	0.33	-0.23	0.01	1.98e-03	1.30e-03	-2.51e-04
17	50	0.01	0.84	-0.60	-7.76e-03	9.49e-04	2.43e-04
18	1	-0.61	-0.12	-0.12	5.61e-03	1.04e-03	-1.31e-04
18	19	0.18	-0.41	-0.11	0.02	1.03e-03	-4.77e-04
18	33	-0.21	-0.05	-0.12	2.18e-03	1.03e-03	-5.13e-05
18	51	0.06	-0.16	-0.11	7.27e-03	1.03e-03	-1.85e-04
19	2	-0.66	-0.36	0.13	-5.37e-03	5.57e-04	-2.60e-04
19	17	-0.20	1.29	-1.41	0.02	3.54e-04	1.54e-04
19	34	-0.25	-0.13	-0.08	-1.93e-03	3.67e-04	-9.25e-05
19	49	-0.08	0.51	-0.68	7.57e-03	2.97e-04	6.25e-05
20	4	0.71	0.67	-0.58	-6.15e-03	1.07e-03	-6.35e-04
20	18	-0.17	2.20	-1.45	-0.02	2.51e-05	-4.17e-05
20	36	0.26	0.27	-0.36	-2.55e-03	5.44e-04	-2.22e-04
20	50	-0.04	0.87	-0.70	-7.89e-03	1.83e-04	-2.38e-05
21	1	-0.61	-0.13	-0.21	5.70e-03	2.56e-04	7.84e-05
21	19	0.18	-0.43	-0.21	0.02	2.70e-04	2.09e-04
21	33	-0.21	-0.05	-0.21	2.22e-03	2.63e-04	2.99e-05
21	51	0.06	-0.17	-0.21	7.39e-03	2.68e-04	8.13e-05
22	3	0.74	0.43	-0.54	5.96e-03	-1.18e-03	5.35e-04
22	17	-0.04	1.40	-1.38	0.02	-8.17e-04	1.08e-03
22	35	0.31	0.18	-0.32	2.48e-03	-9.95e-04	2.00e-04
22	49	0.04	0.55	-0.65	7.65e-03	-8.71e-04	4.24e-04
23	1	-0.79	-0.61	0.19	5.68e-03	-1.72e-03	9.17e-04
23	18	-0.21	2.13	-1.42	-0.02	-1.15e-03	-9.69e-04
23	33	-0.33	-0.23	-0.04	2.05e-03	-1.18e-03	3.31e-04
23	50	-0.12	0.84	-0.66	-7.98e-03	-9.84e-04	-3.84e-04
24	1	-0.61	-0.10	-0.17	5.76e-03	-9.24e-04	3.60e-04
24	19	0.18	-0.34	-0.17	0.02	-8.92e-04	1.14e-03
24	33	-0.21	-0.04	-0.17	2.24e-03	-9.08e-04	1.39e-04
24	51	0.06	-0.13	-0.17	7.47e-03	-8.97e-04	4.42e-04
25	3	0.78	0.48	-0.37	5.90e-03	-1.61e-03	5.70e-04
25	17	0.05	1.59	-1.22	0.02	-1.43e-03	1.54e-03
25	19	0.42	1.58	-1.22	0.02	-1.51e-03	1.60e-03
25	35	0.36	0.19	-0.15	2.38e-03	-1.52e-03	2.17e-04
25	49	0.11	0.62	-0.48	7.60e-03	-1.46e-03	6.01e-04
25	51	0.24	0.62	-0.48	7.60e-03	-1.49e-03	6.21e-04
26	1	-0.82	-0.56	0.36	5.74e-03	-1.95e-03	8.08e-04
26	18	-0.23	1.92	-1.24	-0.02	-1.62e-03	-1.47e-03
26	20	0.16	1.92	-1.24	-0.02	-1.33e-03	-1.67e-03
26	33	-0.37	-0.21	0.14	2.14e-03	-1.64e-03	2.99e-04
26	50	-0.16	0.75	-0.49	-7.79e-03	-1.52e-03	-5.76e-04
26	52	-0.03	0.75	-0.49	-7.79e-03	-1.42e-03	-6.46e-04
27	1	-0.61	-0.04	-6.15e-04	5.79e-03	-1.50e-03	4.93e-04
27	3	0.61	-0.05	-6.61e-04	5.79e-03	-1.44e-03	4.50e-04
27	19	0.18	-0.16	-6.45e-04	0.02	-1.46e-03	1.57e-03

27	33	-0.21	-0.02	-6.30e-04	2.25e-03	-1.48e-03	1.91e-04
27	35	0.21	-0.02	-6.46e-04	2.25e-03	-1.46e-03	1.76e-04
27	51	0.06	-0.06	-6.41e-04	7.50e-03	-1.47e-03	6.09e-04
28	1	-0.61	-0.06	-0.16	4.24e-03	8.75e-04	-1.89e-04
28	7	0.61	-0.10	-0.17	5.76e-03	9.24e-04	-3.60e-04
28	25	-0.18	-0.34	-0.17	0.02	8.92e-04	-1.14e-03
28	33	-0.21	-0.02	-0.17	1.65e-03	8.91e-04	-7.42e-05
28	39	0.21	-0.04	-0.17	2.24e-03	9.08e-04	-1.39e-04
28	57	-0.06	-0.13	-0.17	7.47e-03	8.97e-04	-4.42e-04
29	8	0.66	-0.36	0.13	-5.37e-03	-5.57e-04	2.60e-04
29	27	0.20	1.29	-1.41	0.02	-3.54e-04	-1.54e-04
29	40	0.25	-0.13	-0.08	-1.93e-03	-3.67e-04	9.25e-05
29	59	0.08	0.51	-0.68	7.57e-03	-2.97e-04	-6.25e-05
30	6	-0.71	0.67	-0.58	-6.15e-03	-1.07e-03	6.35e-04
30	28	0.17	2.20	-1.45	-0.02	-2.51e-05	4.17e-05
30	38	-0.26	0.27	-0.36	-2.55e-03	-5.44e-04	2.22e-04
30	60	0.04	0.87	-0.70	-7.89e-03	-1.83e-04	2.38e-05
31	1	0.0	0.0	0.0	0.0	0.0	0.0
31	33	0.0	0.0	0.0	0.0	0.0	0.0
32	1	-0.61	-0.08	-0.20	4.21e-03	-2.77e-04	-3.35e-05
32	7	0.61	-0.13	-0.21	5.70e-03	-2.56e-04	-7.84e-05
32	25	-0.18	-0.43	-0.21	0.02	-2.70e-04	-2.09e-04
32	33	-0.21	-0.03	-0.21	1.64e-03	-2.70e-04	-1.37e-05
32	39	0.21	-0.05	-0.21	2.22e-03	-2.63e-04	-2.99e-05
32	57	-0.06	-0.17	-0.21	7.39e-03	-2.68e-04	-8.13e-05
33	1	0.0	0.0	0.0	0.0	0.0	0.0
33	33	0.0	0.0	0.0	0.0	0.0	0.0
34	7	0.74	0.40	-0.48	5.80e-03	-1.34e-03	3.41e-04
34	27	0.31	1.28	-1.30	0.02	-1.12e-03	5.33e-04
34	39	0.32	0.17	-0.27	2.42e-03	-1.14e-03	1.24e-04
34	59	0.17	0.51	-0.58	7.44e-03	-1.06e-03	2.05e-04
35	5	-0.78	-0.62	0.24	5.52e-03	-1.81e-03	7.10e-04
35	28	0.14	2.14	-1.33	-0.02	-7.95e-04	-6.44e-04
35	37	-0.33	-0.23	0.01	1.98e-03	-1.30e-03	2.51e-04
35	60	-0.01	0.84	-0.60	-7.76e-03	-9.49e-04	-2.43e-04
36	1	0.0	0.0	0.0	0.0	0.0	0.0
36	33	0.0	0.0	0.0	0.0	0.0	0.0
37	1	0.0	0.0	0.0	0.0	0.0	0.0
37	33	0.0	0.0	0.0	0.0	0.0	0.0
38	1	0.0	0.0	0.0	0.0	0.0	0.0
38	33	0.0	0.0	0.0	0.0	0.0	0.0
39	1	0.0	0.0	0.0	0.0	0.0	0.0
39	33	0.0	0.0	0.0	0.0	0.0	0.0
40	1	0.0	0.0	0.0	0.0	0.0	0.0
40	33	0.0	0.0	0.0	0.0	0.0	0.0
41	1	-0.61	-0.07	-0.11	4.15e-03	-1.02e-03	7.85e-05
41	7	0.61	-0.12	-0.12	5.61e-03	-1.04e-03	1.31e-04
41	25	-0.18	-0.41	-0.11	0.02	-1.03e-03	4.77e-04
41	33	-0.21	-0.03	-0.11	1.61e-03	-1.03e-03	3.00e-05
41	39	0.21	-0.05	-0.12	2.18e-03	-1.03e-03	5.13e-05
41	57	-0.06	-0.16	-0.11	7.27e-03	-1.03e-03	1.85e-04
42	1	0.0	0.0	0.0	0.0	0.0	0.0
42	33	0.0	0.0	0.0	0.0	0.0	0.0
43	7	0.68	0.40	-0.36	5.67e-03	-7.31e-04	2.59e-04
43	25	-0.15	1.30	-1.16	0.02	-2.91e-04	1.28e-04
43	27	0.24	1.30	-1.16	0.02	-4.94e-04	2.50e-04
43	39	0.26	0.17	-0.15	2.37e-03	-5.09e-04	9.19e-05
43	57	-0.03	0.52	-0.46	7.27e-03	-3.58e-04	5.26e-05
43	59	0.11	0.52	-0.46	7.27e-03	-4.28e-04	9.45e-05
44	5	-0.72	-0.59	0.34	5.38e-03	-1.15e-03	6.22e-04
44	26	-0.23	2.04	-1.19	-0.02	-6.20e-04	-1.96e-05
44	28	0.18	2.04	-1.19	-0.02	-1.66e-04	-3.59e-04
44	37	-0.27	-0.22	0.12	1.93e-03	-6.54e-04	2.17e-04
44	58	-0.10	0.81	-0.47	-7.59e-03	-4.71e-04	-1.51e-05
44	60	0.04	0.81	-0.47	-7.59e-03	-3.14e-04	-1.32e-04
45	1	-0.61	-0.07	-1.64e-03	4.07e-03	-3.55e-04	1.55e-05
45	5	-0.61	-0.10	-1.64e-03	5.47e-03	-3.55e-04	6.50e-05
45	25	-0.18	-0.35	-1.63e-03	0.02	-3.81e-04	1.92e-04
45	33	-0.21	-0.03	-1.63e-03	1.58e-03	-3.80e-04	5.65e-06
45	37	-0.21	-0.04	-1.63e-03	2.13e-03	-3.80e-04	2.49e-05
45	57	-0.06	-0.14	-1.62e-03	7.09e-03	-3.89e-04	7.44e-05
46	1	-0.68	0.30	-0.29	4.19e-03	7.42e-04	-2.72e-04
46	25	-0.24	1.24	-1.14	0.02	4.97e-04	-2.85e-04
46	33	-0.26	0.13	-0.13	1.79e-03	5.13e-04	-9.68e-05
46	57	-0.11	0.49	-0.46	7.05e-03	4.28e-04	-1.08e-04
47	3	0.72	-0.42	0.23	3.82e-03	1.14e-03	-6.30e-04
47	26	-0.18	2.01	-1.17	-0.02	1.68e-04	3.92e-04

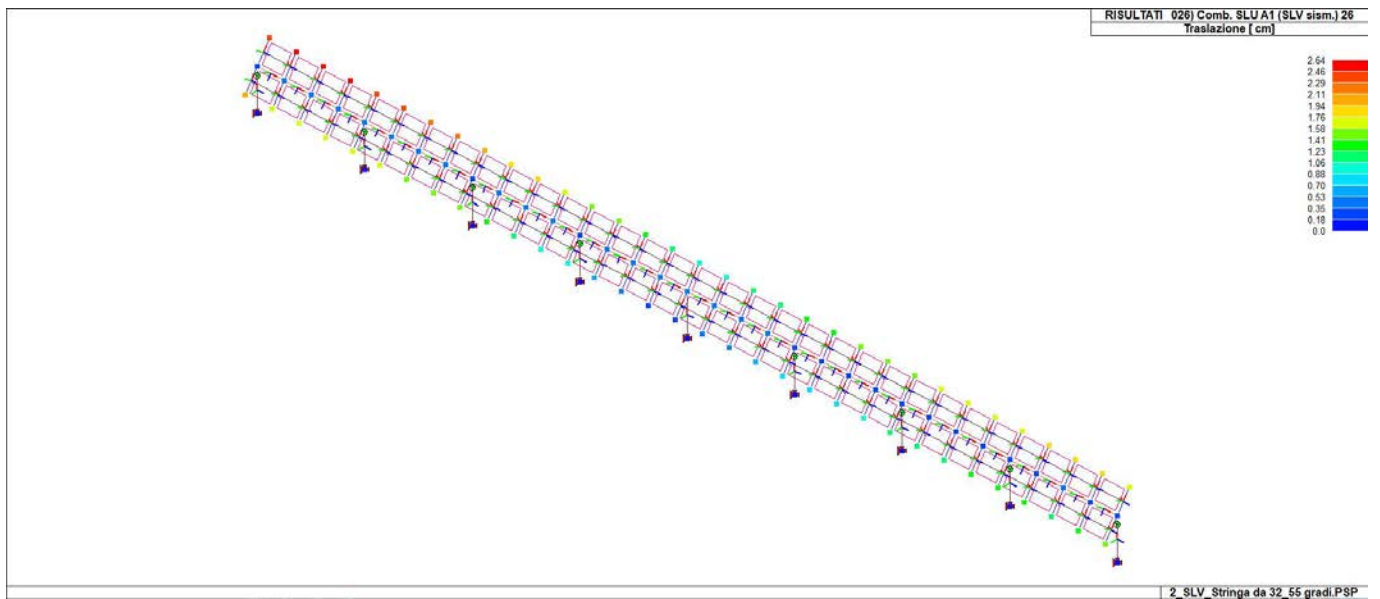
47	35	0.27	-0.15	0.07	1.32e-03	6.49e-04	-2.20e-04
47	58	-0.04	0.79	-0.48	-7.36e-03	3.15e-04	1.45e-04
48	1	-0.61	-0.07	-0.03	3.97e-03	4.41e-04	-6.15e-05
48	27	0.18	-0.36	-0.02	0.02	3.78e-04	-2.25e-04
48	33	-0.21	-0.03	-0.02	1.54e-03	4.09e-04	-2.42e-05
48	59	0.06	-0.14	-0.02	6.87e-03	3.87e-04	-8.74e-05
49	6	-0.65	-0.32	0.24	-4.76e-03	3.92e-04	-2.33e-04
49	25	-0.19	1.16	-1.13	0.02	1.68e-04	2.54e-05
49	38	-0.23	-0.12	0.05	-1.69e-03	1.82e-04	-8.15e-05
49	57	-0.07	0.46	-0.48	6.78e-03	1.05e-04	1.26e-05
50	8	0.69	0.60	-0.38	-5.53e-03	8.46e-04	-5.87e-04
50	26	-0.19	1.96	-1.17	-0.02	-1.61e-04	8.08e-05
50	40	0.24	0.24	-0.19	-2.31e-03	3.39e-04	-2.03e-04
50	58	-0.06	0.77	-0.50	-7.09e-03	-8.71e-06	2.40e-05
51	1	-0.61	-0.08	-0.07	3.85e-03	9.13e-05	5.40e-06
51	5	-0.61	-0.11	-0.07	5.09e-03	9.13e-05	3.03e-05
51	27	0.18	-0.37	-0.05	0.02	6.55e-05	8.62e-05
51	33	-0.21	-0.03	-0.06	1.50e-03	7.83e-05	1.92e-06
51	37	-0.21	-0.04	-0.06	1.98e-03	7.83e-05	1.16e-05
51	59	0.06	-0.15	-0.05	6.60e-03	6.94e-05	3.36e-05
52	7	0.67	0.35	-0.34	5.05e-03	-6.10e-04	3.35e-04
52	25	-0.13	1.12	-1.06	0.02	-2.81e-04	3.63e-04
52	39	0.25	0.15	-0.16	2.13e-03	-4.44e-04	1.21e-04
52	57	-0.02	0.45	-0.44	6.47e-03	-3.31e-04	1.44e-04
53	5	-0.73	-0.53	0.26	4.76e-03	-1.20e-03	6.87e-04
53	26	-0.21	1.85	-1.09	-0.02	-6.10e-04	-2.57e-04
53	37	-0.27	-0.20	0.07	1.69e-03	-6.48e-04	2.43e-04
53	58	-0.09	0.73	-0.45	-6.77e-03	-4.44e-04	-1.07e-04
54	1	-0.61	-0.07	-0.04	3.70e-03	-4.05e-04	7.49e-05
54	5	-0.61	-0.10	-0.04	4.85e-03	-4.05e-04	1.31e-04
54	27	0.18	-0.34	-0.03	0.02	-3.43e-04	4.24e-04
54	33	-0.21	-0.03	-0.04	1.44e-03	-3.74e-04	2.90e-05
54	37	-0.21	-0.04	-0.04	1.89e-03	-3.74e-04	5.07e-05
54	59	0.06	-0.13	-0.03	6.29e-03	-3.52e-04	1.65e-04
55	6	-0.64	-0.30	0.27	-4.25e-03	2.51e-04	-2.39e-04
55	25	-0.19	1.09	-0.97	0.02	1.48e-04	4.19e-05
55	27	0.18	1.09	-0.97	0.02	6.05e-05	1.66e-04
55	38	-0.23	-0.11	0.10	-1.49e-03	1.55e-04	-8.37e-05
55	57	-0.07	0.43	-0.38	6.11e-03	1.20e-04	1.90e-05
55	59	0.06	0.43	-0.38	6.11e-03	8.93e-05	6.19e-05
56	8	0.71	0.53	-0.31	-5.01e-03	1.05e-03	-5.91e-04
56	26	-0.19	1.72	-1.00	-0.02	-1.80e-04	6.39e-05
56	28	0.23	1.72	-1.00	-0.02	3.89e-04	-2.72e-04
56	40	0.25	0.22	-0.13	-2.11e-03	4.32e-04	-2.05e-04
56	58	-0.06	0.68	-0.40	-6.41e-03	6.28e-06	1.74e-05
56	60	0.08	0.68	-0.40	-6.41e-03	2.03e-04	-9.84e-05
57	1	-0.61	-0.06	-1.33e-03	3.52e-03	-5.02e-05	2.26e-06
57	7	0.61	-0.09	-1.46e-03	4.57e-03	2.59e-04	2.79e-05
57	27	0.18	-0.29	-1.42e-03	0.02	1.51e-04	1.03e-04
57	33	-0.21	-0.03	-1.38e-03	1.37e-03	5.12e-05	0.0
57	39	0.21	-0.03	-1.42e-03	1.78e-03	1.58e-04	1.10e-05
57	59	0.06	-0.11	-1.41e-03	5.93e-03	1.20e-04	4.01e-05
58	1	-0.67	0.24	-0.25	3.54e-03	6.22e-04	-2.83e-04
58	25	-0.25	0.97	-0.95	0.01	5.55e-04	-3.08e-04
58	27	0.12	0.97	-0.97	0.01	4.98e-04	-1.84e-04
58	33	-0.26	0.11	-0.14	1.54e-03	5.60e-04	-1.01e-04
58	57	-0.12	0.39	-0.41	5.71e-03	5.37e-04	-1.17e-04
58	59	0.01	0.39	-0.42	5.71e-03	5.17e-04	-7.44e-05
59	3	0.75	-0.36	0.12	3.19e-03	1.53e-03	-6.36e-04
59	26	-0.18	1.64	-0.98	-0.02	2.27e-04	4.14e-04
59	28	0.24	1.64	-1.00	-0.02	8.27e-04	7.82e-05
59	35	0.29	-0.13	4.24e-03	1.08e-03	8.72e-04	-2.23e-04
59	58	-0.03	0.65	-0.43	-6.00e-03	4.23e-04	1.54e-04
59	60	0.11	0.65	-0.43	-6.00e-03	6.30e-04	3.78e-05
60	1	-0.61	-0.07	-0.03	3.32e-03	3.21e-04	-7.18e-05
60	7	0.61	-0.09	-0.08	4.26e-03	7.32e-04	-7.77e-05
60	27	0.18	-0.31	-0.07	0.01	5.89e-04	-2.47e-04
60	33	-0.21	-0.03	-0.05	1.29e-03	4.56e-04	-2.81e-05
60	39	0.21	-0.04	-0.07	1.66e-03	5.98e-04	-3.00e-05
60	59	0.06	-0.12	-0.06	5.53e-03	5.48e-04	-9.62e-05
61	4	0.63	-0.18	0.04	-2.79e-03	-2.15e-04	2.21e-04
61	27	0.19	0.85	-0.94	0.01	-7.80e-05	7.52e-05
61	36	0.22	-0.06	-0.05	-9.21e-04	-8.67e-05	7.67e-05
61	59	0.07	0.34	-0.43	5.26e-03	-3.96e-05	2.65e-05
62	2	-0.70	0.38	-0.26	-3.49e-03	-9.20e-04	5.75e-04
62	28	0.21	1.56	-0.97	-0.01	2.51e-04	-1.81e-04
62	34	-0.24	0.16	-0.17	-1.52e-03	-3.30e-04	1.99e-04

62	60	0.07	0.62	-0.44	-5.55e-03	7.37e-05	-6.31e-05
63	1	-0.61	-0.08	-0.05	3.10e-03	-1.25e-04	-9.94e-06
63	7	0.61	-0.10	-0.14	3.92e-03	8.66e-05	0.0
63	25	-0.18	-0.33	-0.08	0.01	-5.12e-05	1.45e-05
63	33	-0.21	-0.03	-0.08	1.21e-03	-5.60e-05	-4.05e-06
63	39	0.21	-0.04	-0.11	1.52e-03	1.71e-05	0.0
63	57	-0.06	-0.13	-0.09	5.08e-03	-3.04e-05	5.57e-06
64	7	0.70	0.24	-0.33	3.74e-03	-9.82e-04	2.75e-04
64	27	0.26	0.76	-0.82	0.01	-6.70e-04	2.91e-04
64	39	0.27	0.10	-0.17	1.62e-03	-6.90e-04	9.79e-05
64	59	0.12	0.31	-0.36	4.78e-03	-5.82e-04	1.11e-04
65	5	-0.72	-0.40	0.21	3.43e-03	-1.19e-03	6.30e-04
65	28	0.17	1.42	-0.85	-0.01	-3.41e-04	-3.98e-04
65	37	-0.28	-0.15	0.04	1.17e-03	-7.61e-04	2.20e-04
65	60	0.03	0.56	-0.37	-5.06e-03	-4.69e-04	-1.47e-04
66	1	-0.61	-0.08	-0.01	2.85e-03	-3.92e-04	3.36e-05
66	7	0.61	-0.09	-0.10	3.54e-03	-6.81e-04	6.45e-05
66	25	-0.18	-0.31	-0.04	0.01	-4.93e-04	2.31e-04
66	33	-0.21	-0.03	-0.04	1.11e-03	-4.87e-04	1.29e-05
66	39	0.21	-0.04	-0.07	1.38e-03	-5.86e-04	2.53e-05
66	57	-0.06	-0.12	-0.05	4.59e-03	-5.21e-04	8.96e-05
67	4	0.70	-0.13	0.15	-2.25e-03	-8.73e-04	3.10e-04
67	25	-0.22	0.65	-0.66	0.01	2.28e-04	-3.03e-04
67	27	0.19	0.65	-0.66	0.01	-2.80e-04	-1.79e-04
67	36	0.24	-0.04	0.05	-7.14e-04	-3.18e-04	1.11e-04
67	57	-0.07	0.26	-0.27	4.24e-03	6.15e-05	-1.15e-04
67	59	0.07	0.26	-0.27	4.24e-03	-1.14e-04	-7.23e-05
68	2	-0.64	0.34	-0.18	-2.97e-03	-2.75e-04	6.64e-04
68	26	-0.21	1.29	-0.69	-0.01	-1.01e-04	4.09e-04
68	28	0.17	1.29	-0.69	-0.01	4.87e-05	7.25e-05
68	34	-0.22	0.14	-0.08	-1.32e-03	-1.12e-04	2.33e-04
68	58	-0.07	0.51	-0.28	-4.52e-03	-5.18e-05	1.52e-04
68	60	0.06	0.51	-0.28	-4.52e-03	0.0	3.56e-05
69	1	-0.61	-0.08	-1.71e-03	2.57e-03	5.20e-04	-9.87e-05
69	5	-0.61	-0.09	-1.71e-03	3.13e-03	5.20e-04	-6.79e-05
69	25	-0.18	-0.30	-1.53e-03	0.01	1.38e-04	-2.39e-04
69	33	-0.21	-0.03	-1.54e-03	9.99e-04	1.62e-04	-3.86e-05
69	37	-0.21	-0.04	-1.54e-03	1.22e-03	1.62e-04	-2.66e-05
69	57	-0.06	-0.12	-1.49e-03	4.06e-03	3.04e-05	-9.32e-05
70	1	-0.76	0.12	-0.29	2.47e-03	1.54e-03	-4.26e-04
70	25	-0.30	0.44	-0.64	9.02e-03	8.06e-04	-7.47e-04
70	27	0.12	0.44	-0.59	9.02e-03	1.82e-04	-6.23e-04
70	33	-0.29	0.06	-0.15	1.12e-03	8.53e-04	-1.57e-04
70	57	-0.13	0.18	-0.29	3.67e-03	6.02e-04	-2.88e-04
70	59	0.01	0.18	-0.27	3.67e-03	3.86e-04	-2.45e-04
71	3	0.67	-0.30	0.18	2.13e-03	5.49e-04	-7.81e-04
71	26	-0.18	1.23	-0.67	-9.73e-03	4.78e-04	8.53e-04
71	28	0.19	1.23	-0.62	-9.73e-03	5.10e-04	5.17e-04
71	35	0.26	-0.10	0.03	6.67e-04	5.13e-04	-2.79e-04
71	58	-0.04	0.49	-0.30	-3.94e-03	4.88e-04	3.24e-04
71	60	0.09	0.49	-0.28	-3.94e-03	5.00e-04	2.08e-04
72	1	-0.61	-0.10	-0.14	2.26e-03	1.23e-03	-2.15e-04
72	25	-0.18	-0.37	-0.08	8.95e-03	7.16e-04	-6.84e-04
72	33	-0.21	-0.04	-0.08	8.79e-04	7.49e-04	-8.39e-05
72	57	-0.06	-0.14	-0.06	3.48e-03	5.71e-04	-2.66e-04
73	1	0.0	0.0	0.0	0.0	0.0	0.0
73	33	0.0	0.0	0.0	0.0	0.0	0.0
74	1	-0.68	0.06	-0.39	2.14e-03	6.77e-04	-3.39e-04
74	25	-0.23	0.22	-0.61	7.45e-03	2.08e-04	-4.41e-04
74	27	0.18	0.22	-0.51	7.45e-03	-1.95e-04	-3.17e-04
74	33	-0.23	0.03	-0.20	9.94e-04	2.38e-04	-1.23e-04
74	57	-0.08	0.10	-0.29	3.06e-03	7.58e-05	-1.69e-04
74	59	0.06	0.10	-0.26	3.06e-03	-6.29e-05	-1.26e-04
75	3	0.66	-0.29	0.20	1.80e-03	4.32e-04	-6.93e-04
75	26	-0.22	1.16	-0.64	-8.14e-03	-1.21e-04	5.47e-04
75	28	0.17	1.16	-0.53	-8.14e-03	1.34e-04	2.11e-04
75	35	0.23	-0.10	9.15e-03	5.38e-04	1.53e-04	-2.45e-04
75	58	-0.08	0.46	-0.31	-3.33e-03	-3.75e-05	2.05e-04
75	60	0.06	0.46	-0.27	-3.33e-03	5.04e-05	8.93e-05
76	1	-0.61	-0.13	-0.26	1.93e-03	3.76e-04	-1.28e-04
76	5	-0.61	-0.13	-0.26	2.21e-03	3.76e-04	-1.09e-04
76	25	-0.18	-0.45	-0.14	7.37e-03	1.17e-04	-3.78e-04
76	33	-0.21	-0.05	-0.14	7.49e-04	1.34e-04	-4.99e-05
76	37	-0.21	-0.05	-0.14	8.60e-04	1.34e-04	-4.27e-05
76	57	-0.06	-0.17	-0.10	2.87e-03	4.47e-05	-1.47e-04
77	7	0.63	0.03	-3.41e-03	1.92e-03	-2.27e-04	2.27e-04
77	25	-0.13	0.05	-0.46	5.77e-03	-5.70e-04	4.91e-06

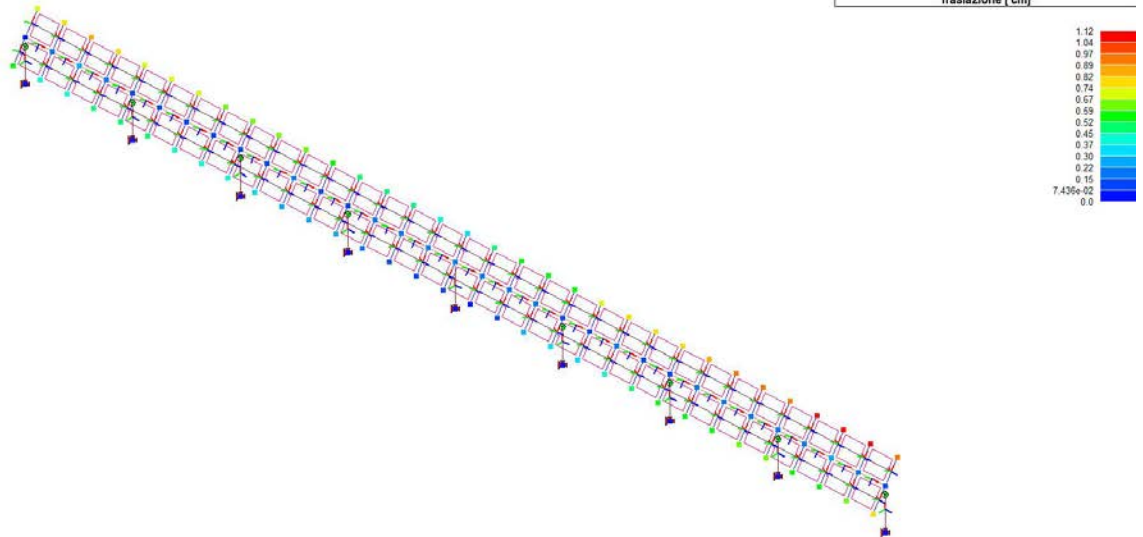
77	27	0.22	0.05	-0.36	5.77e-03	-4.12e-04	1.29e-04
77	39	0.25	0.02	-0.05	9.07e-04	-4.00e-04	7.90e-05
77	57	-0.01	0.03	-0.22	2.40e-03	-5.18e-04	4.65e-06
77	59	0.11	0.03	-0.18	2.40e-03	-4.64e-04	4.74e-05
78	5	-0.78	-0.28	-0.11	1.59e-03	-1.85e-03	5.81e-04
78	26	-0.26	1.02	-0.49	-6.44e-03	-8.99e-04	1.01e-04
78	28	0.18	1.02	-0.39	-6.44e-03	-8.28e-05	-2.35e-04
78	37	-0.30	-0.10	-0.07	4.55e-04	-9.60e-04	2.01e-04
78	58	-0.12	0.41	-0.23	-2.67e-03	-6.31e-04	3.20e-05
78	60	0.03	0.41	-0.19	-2.67e-03	-3.50e-04	-8.40e-05
79	1	-0.61	-0.14	-0.21	1.56e-03	-1.06e-03	-3.00e-06
79	5	-0.61	-0.14	-0.21	1.71e-03	-1.06e-03	2.43e-05
79	25	-0.18	-0.46	-0.10	5.69e-03	-6.60e-04	6.82e-05
79	33	-0.21	-0.05	-0.11	6.08e-04	-6.86e-04	-1.36e-06
79	37	-0.21	-0.05	-0.11	6.63e-04	-6.86e-04	9.28e-06
79	57	-0.06	-0.18	-0.07	2.21e-03	-5.49e-04	2.64e-05
80	4	0.45	0.05	0.06	-8.50e-04	1.76e-03	2.22e-04
80	17	-0.14	-0.09	-0.25	3.98e-03	-5.29e-04	-1.14e-04
80	18	-0.13	0.13	0.22	-3.45e-03	-5.29e-04	-9.70e-06
80	36	0.16	0.03	0.01	-1.69e-04	6.08e-04	7.73e-05
80	49	-0.05	-0.02	-0.11	1.71e-03	-1.82e-04	-4.17e-05
80	50	-0.05	0.06	0.08	-1.18e-03	-1.82e-04	-1.03e-06
81	2	-0.87	0.27	-0.09	-1.58e-03	-2.86e-03	5.77e-04
81	18	-0.26	0.85	-0.28	-4.65e-03	-8.58e-04	2.21e-04
81	34	-0.30	0.11	-0.05	-7.76e-04	-9.85e-04	1.99e-04
81	50	-0.09	0.34	-0.12	-1.97e-03	-2.96e-04	7.83e-05
82	1	-0.61	-0.13	-1.44e-03	1.17e-03	-2.06e-03	-1.14e-05
82	17	-0.18	-0.45	-1.44e-03	3.90e-03	-6.10e-04	-5.10e-05
82	33	-0.21	-0.05	-1.44e-03	4.55e-04	-7.12e-04	4.63e-06
82	49	-0.06	-0.17	-1.44e-03	1.52e-03	-2.13e-04	-1.99e-05
83	1	-0.63	0.03	-3.41e-03	1.92e-03	2.27e-04	-2.27e-04
83	17	-0.22	0.05	-0.36	5.77e-03	4.12e-04	-1.29e-04
83	19	0.13	0.05	-0.46	5.77e-03	5.70e-04	-4.91e-06
83	33	-0.25	0.02	-0.05	9.07e-04	4.00e-04	-7.90e-05
83	49	-0.11	0.03	-0.18	2.40e-03	4.64e-04	-4.74e-05
83	51	0.01	0.03	-0.22	2.40e-03	5.18e-04	-4.65e-06
84	3	0.78	-0.28	-0.11	1.59e-03	1.85e-03	-5.81e-04
84	18	-0.18	1.02	-0.39	-6.44e-03	8.28e-05	2.35e-04
84	20	0.26	1.02	-0.49	-6.44e-03	8.99e-04	-1.01e-04
84	35	0.30	-0.10	-0.07	4.55e-04	9.60e-04	-2.01e-04
84	50	-0.03	0.41	-0.19	-2.67e-03	3.50e-04	8.40e-05
84	52	0.12	0.41	-0.23	-2.67e-03	6.31e-04	-3.20e-05
85	1	-0.61	-0.14	0.11	1.71e-03	-7.42e-05	-1.58e-05
85	3	0.61	-0.14	-0.21	1.71e-03	1.06e-03	-2.43e-05
85	19	0.18	-0.46	-0.10	5.69e-03	6.60e-04	-6.82e-05
85	33	-0.21	-0.05	7.07e-03	6.63e-04	2.96e-04	-6.33e-06
85	35	0.21	-0.05	-0.11	6.63e-04	6.86e-04	-9.28e-06
85	51	0.06	-0.18	-0.07	2.21e-03	5.49e-04	-2.64e-05
86	7	0.68	0.06	-0.39	2.14e-03	-6.77e-04	3.39e-04
86	17	-0.18	0.22	-0.51	7.45e-03	1.95e-04	3.17e-04
86	19	0.23	0.22	-0.61	7.45e-03	-2.08e-04	4.41e-04
86	39	0.23	0.03	-0.20	9.94e-04	-2.38e-04	1.23e-04
86	49	-0.06	0.10	-0.26	3.06e-03	6.29e-05	1.26e-04
86	51	0.08	0.10	-0.29	3.06e-03	-7.58e-05	1.69e-04
87	5	-0.66	-0.29	0.20	1.80e-03	-4.32e-04	6.93e-04
87	18	-0.17	1.16	-0.53	-8.14e-03	-1.34e-04	-2.11e-04
87	20	0.22	1.16	-0.64	-8.14e-03	1.21e-04	-5.47e-04
87	37	-0.23	-0.10	9.15e-03	5.38e-04	-1.53e-04	2.45e-04
87	50	-0.06	0.46	-0.27	-3.33e-03	-5.04e-05	-8.93e-05
87	52	0.08	0.46	-0.31	-3.33e-03	3.75e-05	-2.05e-04
88	1	-0.61	-0.13	0.08	2.21e-03	3.63e-04	1.18e-04
88	3	0.61	-0.13	-0.26	2.21e-03	-3.76e-04	1.09e-04
88	19	0.18	-0.45	-0.14	7.37e-03	-1.17e-04	3.78e-04
88	33	-0.21	-0.05	-0.03	8.60e-04	1.21e-04	4.57e-05
88	35	0.21	-0.05	-0.14	8.60e-04	-1.34e-04	4.27e-05
88	51	0.06	-0.17	-0.10	2.87e-03	-4.47e-05	1.47e-04
89	7	0.76	0.12	-0.29	2.47e-03	-1.54e-03	4.26e-04
89	17	-0.12	0.44	-0.59	9.02e-03	-1.82e-04	6.23e-04
89	19	0.30	0.44	-0.64	9.02e-03	-8.06e-04	7.47e-04
89	39	0.29	0.06	-0.15	1.12e-03	-8.53e-04	1.57e-04
89	49	-0.01	0.18	-0.27	3.67e-03	-3.86e-04	2.45e-04
89	51	0.13	0.18	-0.29	3.67e-03	-6.02e-04	2.88e-04
90	5	-0.67	-0.30	0.18	2.13e-03	-5.49e-04	7.81e-04
90	18	-0.19	1.23	-0.62	-9.73e-03	-5.10e-04	-5.17e-04
90	20	0.18	1.23	-0.67	-9.73e-03	-4.78e-04	-8.53e-04
90	37	-0.26	-0.10	0.03	6.67e-04	-5.13e-04	2.79e-04
90	50	-0.09	0.49	-0.28	-3.94e-03	-5.00e-04	-2.08e-04

90	52	0.04	0.49	-0.30	-3.94e-03	-4.88e-04	-3.24e-04
91	1	-0.61	-0.11	0.04	2.69e-03	2.46e-04	2.10e-04
91	7	0.61	-0.10	-0.14	2.26e-03	-1.23e-03	2.15e-04
91	19	0.18	-0.37	-0.08	8.95e-03	-7.16e-04	6.84e-04
91	33	-0.21	-0.04	-0.02	1.04e-03	-2.39e-04	8.14e-05
91	39	0.21	-0.04	-0.08	8.79e-04	-7.49e-04	8.39e-05
91	51	0.06	-0.14	-0.06	3.48e-03	-5.71e-04	2.66e-04
92	6	-0.70	-0.13	0.15	-2.25e-03	8.73e-04	-3.10e-04
92	17	-0.19	0.65	-0.66	0.01	2.80e-04	1.79e-04
92	19	0.22	0.65	-0.66	0.01	-2.28e-04	3.03e-04
92	38	-0.24	-0.04	0.05	-7.14e-04	3.18e-04	-1.11e-04
92	49	-0.07	0.26	-0.27	4.24e-03	1.14e-04	7.23e-05
92	51	0.07	0.26	-0.27	4.24e-03	-6.15e-05	1.15e-04
93	8	0.64	0.34	-0.18	-2.97e-03	2.75e-04	-6.64e-04
93	18	-0.17	1.29	-0.69	-0.01	-4.87e-05	-7.25e-05
93	20	0.21	1.29	-0.69	-0.01	1.01e-04	-4.09e-04
93	40	0.22	0.14	-0.08	-1.32e-03	1.12e-04	-2.33e-04
93	50	-0.06	0.51	-0.28	-4.52e-03	0.0	-3.56e-05
93	52	0.07	0.51	-0.28	-4.52e-03	5.18e-05	-1.52e-04
94	1	-0.61	-0.09	-1.21e-03	3.13e-03	5.72e-04	7.66e-05
94	3	0.61	-0.09	-1.71e-03	3.13e-03	-5.20e-04	6.79e-05
94	19	0.18	-0.30	-1.53e-03	0.01	-1.38e-04	2.39e-04
94	33	-0.21	-0.04	-1.38e-03	1.22e-03	2.14e-04	2.96e-05
94	35	0.21	-0.04	-1.54e-03	1.22e-03	-1.62e-04	2.66e-05
94	51	0.06	-0.12	-1.49e-03	4.06e-03	-3.04e-05	9.32e-05
95	1	-0.70	0.24	-0.33	3.74e-03	9.82e-04	-2.75e-04
95	17	-0.26	0.76	-0.82	0.01	6.70e-04	-2.91e-04
95	33	-0.27	0.10	-0.17	1.62e-03	6.90e-04	-9.79e-05
95	49	-0.12	0.31	-0.36	4.78e-03	5.82e-04	-1.11e-04
96	3	0.72	-0.40	0.21	3.43e-03	1.19e-03	-6.30e-04
96	18	-0.17	1.42	-0.85	-0.01	3.41e-04	3.98e-04
96	35	0.28	-0.15	0.04	1.17e-03	7.61e-04	-2.20e-04
96	50	-0.03	0.56	-0.37	-5.06e-03	4.69e-04	1.47e-04
97	1	-0.61	-0.09	-0.10	3.54e-03	6.81e-04	-6.45e-05
97	19	0.18	-0.31	-0.04	0.01	4.93e-04	-2.31e-04
97	33	-0.21	-0.04	-0.07	1.38e-03	5.86e-04	-2.53e-05
97	51	0.06	-0.12	-0.05	4.59e-03	5.21e-04	-8.96e-05
98	6	-0.63	-0.18	0.04	-2.79e-03	2.15e-04	-2.21e-04
98	17	-0.19	0.85	-0.94	0.01	7.80e-05	-7.52e-05
98	38	-0.22	-0.06	-0.05	-9.21e-04	8.67e-05	-7.67e-05
98	49	-0.07	0.34	-0.43	5.26e-03	3.96e-05	-2.65e-05
99	8	0.70	0.38	-0.26	-3.49e-03	9.20e-04	-5.75e-04
99	18	-0.21	1.56	-0.97	-0.01	-2.51e-04	1.81e-04
99	40	0.24	0.16	-0.17	-1.52e-03	3.30e-04	-1.99e-04
99	50	-0.07	0.62	-0.44	-5.55e-03	-7.37e-05	6.31e-05
100	1	-0.61	-0.10	-0.14	3.92e-03	-8.66e-05	0.0
100	19	0.18	-0.33	-0.08	0.01	5.12e-05	-1.45e-05
100	33	-0.21	-0.04	-0.11	1.52e-03	-1.71e-05	0.0
100	51	0.06	-0.13	-0.09	5.08e-03	3.04e-05	-5.57e-06
101	7	0.67	0.24	-0.25	3.54e-03	-6.22e-04	2.83e-04
101	17	-0.12	0.97	-0.97	0.01	-4.98e-04	1.84e-04
101	19	0.25	0.97	-0.95	0.01	-5.55e-04	3.08e-04
101	39	0.26	0.11	-0.14	1.54e-03	-5.60e-04	1.01e-04
101	49	-0.01	0.39	-0.42	5.71e-03	-5.17e-04	7.44e-05
101	51	0.12	0.39	-0.41	5.71e-03	-5.37e-04	1.17e-04
102	5	-0.75	-0.36	0.12	3.19e-03	-1.53e-03	6.36e-04
102	18	-0.24	1.64	-1.00	-0.02	-8.27e-04	-7.82e-05
102	20	0.18	1.64	-0.98	-0.02	-2.27e-04	-4.14e-04
102	37	-0.29	-0.13	4.24e-03	1.08e-03	-8.72e-04	2.23e-04
102	50	-0.11	0.65	-0.43	-6.00e-03	-6.30e-04	-3.78e-05
102	52	0.03	0.65	-0.43	-6.00e-03	-4.23e-04	-1.54e-04
103	1	-0.61	-0.09	-0.08	4.26e-03	-7.32e-04	7.77e-05
103	17	-0.18	-0.31	-0.07	0.01	-5.89e-04	2.47e-04
103	33	-0.21	-0.04	-0.07	1.66e-03	-5.98e-04	3.00e-05
103	49	-0.06	-0.12	-0.06	5.53e-03	-5.48e-04	9.62e-05
104	5	-0.78	0.48	-0.37	5.90e-03	1.61e-03	-5.70e-04
104	25	-0.42	1.58	-1.22	0.02	1.51e-03	-1.60e-03
104	27	-0.05	1.59	-1.22	0.02	1.43e-03	-1.54e-03
104	37	-0.36	0.19	-0.15	2.38e-03	1.52e-03	-2.17e-04
104	57	-0.24	0.62	-0.48	7.60e-03	1.49e-03	-6.21e-04
104	59	-0.11	0.62	-0.48	7.60e-03	1.46e-03	-6.01e-04
105	5	-0.74	0.43	-0.54	5.96e-03	1.18e-03	-5.35e-04
105	27	0.04	1.40	-1.38	0.02	8.17e-04	-1.08e-03
105	37	-0.31	0.18	-0.32	2.48e-03	9.95e-04	-2.00e-04
105	59	-0.04	0.55	-0.65	7.65e-03	8.71e-04	-4.24e-04
106	7	0.82	-0.56	0.36	5.74e-03	1.95e-03	-8.08e-04
106	26	-0.16	1.92	-1.24	-0.02	1.33e-03	1.67e-03

106	28	0.23	1.92	-1.24	-0.02	1.62e-03	1.47e-03
106	39	0.37	-0.21	0.14	2.14e-03	1.64e-03	-2.99e-04
106	58	0.03	0.75	-0.49	-7.79e-03	1.42e-03	6.46e-04
106	60	0.16	0.75	-0.49	-7.79e-03	1.52e-03	5.76e-04
107	7	0.79	-0.61	0.19	5.68e-03	1.72e-03	-9.17e-04
107	28	0.21	2.13	-1.42	-0.02	1.15e-03	9.69e-04
107	39	0.33	-0.23	-0.04	2.05e-03	1.18e-03	-3.31e-04
107	60	0.12	0.84	-0.66	-7.98e-03	9.84e-04	3.84e-04
108	1	-0.61	-0.03	-6.61e-04	4.25e-03	1.44e-03	-2.59e-04
108	5	-0.61	-0.05	-6.61e-04	5.79e-03	1.44e-03	-4.50e-04
108	25	-0.18	-0.16	-6.45e-04	0.02	1.46e-03	-1.57e-03
108	33	-0.21	-0.01	-6.46e-04	1.65e-03	1.46e-03	-1.02e-04
108	37	-0.21	-0.02	-6.46e-04	2.25e-03	1.46e-03	-1.76e-04
108	57	-0.06	-0.06	-6.41e-04	7.50e-03	1.47e-03	-6.09e-04
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		-0.87	-0.62	-1.45	-0.02	-2.86e-03	-1.67e-03
		0.82	2.20	0.36	0.02	1.95e-03	1.67e-03



41_RIS_SPOSTAMENTI_026_Comb. SLU A1 (SLV sism.) 26



41_RIS_SPOSTAMENTI_052_Comb. SLE (SLD Danno sism.) 52

Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
31	1	-296.63	-137.41	-685.01	2.748e+04	-5.933e+04	-2.39
31	2	-296.63	137.64	-685.01	-2.753e+04	-5.933e+04	3.20
31	3	296.63	-137.64	-697.78	2.753e+04	5.933e+04	-3.20
31	19	88.99	-458.45	-693.31	9.169e+04	1.780e+04	-9.44
31	33	-102.23	-53.43	-689.19	1.069e+04	-2.045e+04	-0.95
31	34	-102.23	53.51	-689.19	-1.070e+04	-2.045e+04	1.23
31	35	102.23	-53.51	-693.59	1.070e+04	2.045e+04	-1.23
31	51	30.67	-178.26	-692.05	3.565e+04	6133.99	-3.66
33	3	782.26	-92.38	-617.15	2.980e+04	9.158e+04	-0.98
33	17	-234.68	-307.95	-617.15	9.932e+04	-2.747e+04	-2.51
33	20	234.68	307.95	-617.15	-9.932e+04	2.747e+04	2.51
33	35	269.61	-35.92	-617.15	1.159e+04	3.156e+04	-0.37
33	49	-80.88	-119.74	-617.15	3.862e+04	-9468.93	-0.98
33	52	80.88	119.74	-617.15	-3.862e+04	9468.93	0.98
36	1	-296.60	-115.83	-627.29	2.317e+04	-5.932e+04	-1.37
36	4	296.60	115.83	-574.08	-2.317e+04	5.932e+04	1.37
36	17	-88.98	-385.66	-608.66	7.713e+04	-1.780e+04	-5.08
36	33	-102.23	-45.03	-609.85	9006.30	-2.045e+04	-0.54
36	36	102.23	45.03	-591.51	-9006.30	2.045e+04	0.54
36	49	-30.67	-149.95	-603.43	2.999e+04	-6133.53	-1.98
37	1	-296.37	-41.23	-299.86	8246.66	-5.927e+04	-12.77
37	5	-296.37	-67.97	-299.86	1.359e+04	-5.927e+04	-22.19
37	8	296.37	67.97	-281.18	-1.359e+04	5.927e+04	22.19
37	25	-88.91	-204.80	-293.32	4.096e+04	-1.778e+04	-77.12
37	33	-102.14	-15.72	-293.74	3143.16	-2.043e+04	-5.01
37	37	-102.14	-26.11	-293.74	5222.40	-2.043e+04	-8.68
37	40	102.14	26.11	-287.30	-5222.40	2.043e+04	8.68
37	57	-30.64	-79.54	-291.49	1.591e+04	-6128.61	-30.00
38	1	-296.63	-87.09	-697.78	1.742e+04	-5.933e+04	0.76
38	5	-296.63	-137.64	-697.78	2.753e+04	-5.933e+04	3.20
38	8	296.63	137.64	-685.01	-2.753e+04	5.933e+04	-3.20
38	25	-88.99	-458.45	-693.31	9.169e+04	-1.780e+04	9.44
38	33	-102.23	-33.86	-693.59	6772.02	-2.045e+04	0.28
38	37	-102.23	-53.51	-693.59	1.070e+04	-2.045e+04	1.23
38	40	102.23	53.51	-689.19	-1.070e+04	2.045e+04	-1.23
38	57	-30.67	-178.26	-692.05	3.565e+04	-6133.99	3.66
39	1	-296.30	-118.72	-525.17	2.374e+04	-5.926e+04	3.77
39	2	-296.30	118.76	-525.17	-2.375e+04	-5.926e+04	-3.35
39	3	296.30	-118.76	-725.53	2.375e+04	5.926e+04	3.35
39	19	88.89	-395.80	-655.40	7.916e+04	1.778e+04	11.80
39	33	-102.12	-46.16	-590.82	9232.29	-2.042e+04	1.46
39	34	-102.12	46.18	-590.82	-9235.15	-2.042e+04	-1.31
39	35	102.12	-46.18	-659.88	9235.15	2.042e+04	1.31
39	51	30.64	-153.90	-635.71	3.078e+04	6127.23	4.59
40	1	-296.30	-103.63	-725.53	2.073e+04	-5.926e+04	-4.86
40	5	-296.30	-118.76	-725.53	2.375e+04	-5.926e+04	-3.35

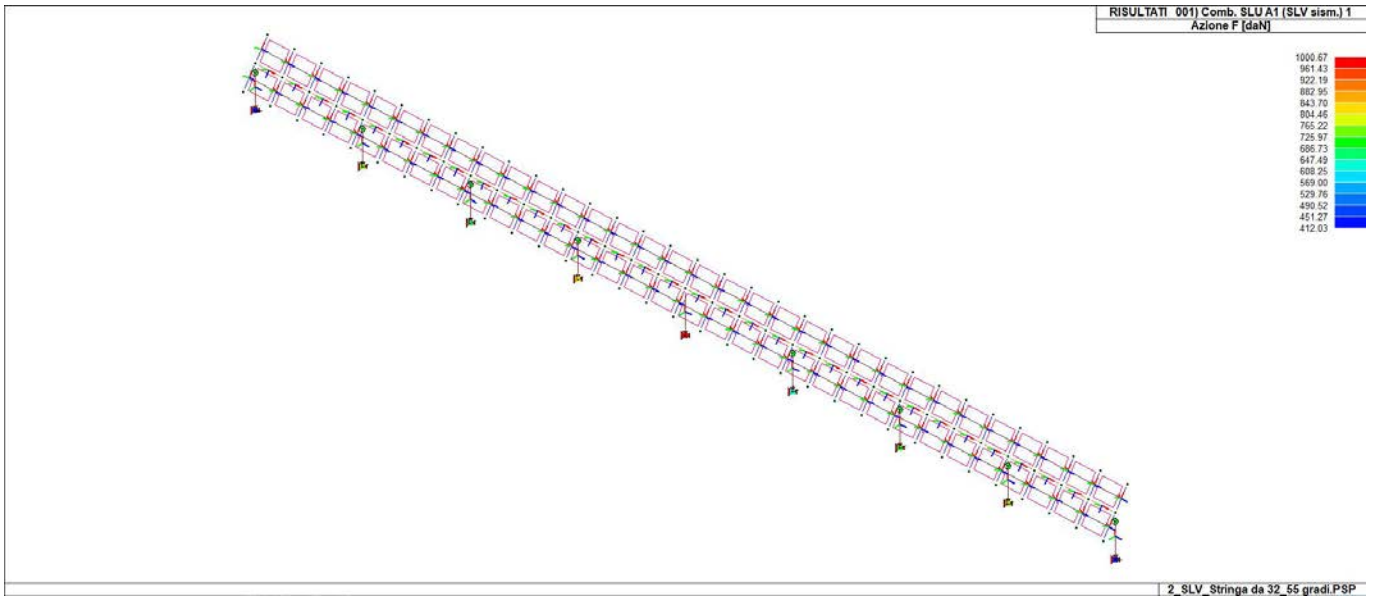
40	8	296.30	118.76	-525.17	-2.375e+04	5.926e+04	3.35
40	25	-88.89	-395.80	-655.40	7.916e+04	-1.778e+04	-11.80
40	33	-102.12	-40.29	-659.88	8058.52	-2.042e+04	-1.90
40	37	-102.12	-46.18	-659.88	9235.15	-2.042e+04	-1.31
40	40	102.12	46.18	-590.82	-9235.15	2.042e+04	1.31
40	57	-30.64	-153.90	-635.71	3.078e+04	-6127.23	-4.59
42	1	-296.60	-85.34	-574.08	1.707e+04	-5.932e+04	0.11
42	6	-296.60	115.83	-574.08	-2.317e+04	-5.932e+04	-1.37
42	7	296.60	-115.83	-627.29	2.317e+04	5.932e+04	1.37
42	27	88.98	-385.66	-608.66	7.713e+04	1.780e+04	5.08
42	33	-102.23	-33.19	-591.51	6637.94	-2.045e+04	0.04
42	38	-102.23	45.03	-591.51	-9006.30	-2.045e+04	-0.54
42	39	102.23	-45.03	-609.85	9006.30	2.045e+04	0.54
42	59	30.67	-149.95	-603.43	2.999e+04	6133.53	1.98
73	1	-296.37	-53.62	-281.18	1.072e+04	-5.927e+04	24.27
73	2	-296.37	67.97	-281.18	-1.359e+04	-5.927e+04	-22.19
73	3	296.37	-67.97	-299.86	1.359e+04	5.927e+04	22.19
73	19	88.91	-204.80	-293.32	4.096e+04	1.778e+04	77.12
73	33	-102.14	-21.17	-287.30	4233.24	-2.043e+04	9.39
73	34	-102.14	26.11	-287.30	-5222.40	-2.043e+04	-8.68
73	35	102.14	-26.11	-293.74	5222.40	2.043e+04	8.68
73	51	30.64	-79.54	-291.49	1.591e+04	6128.61	30.00

Nodo	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	-296.63	-458.45	-725.53	-9.932e+04	-5.933e+04	-77.12
	782.26	307.95	-281.18	9.932e+04	9.158e+04	77.12

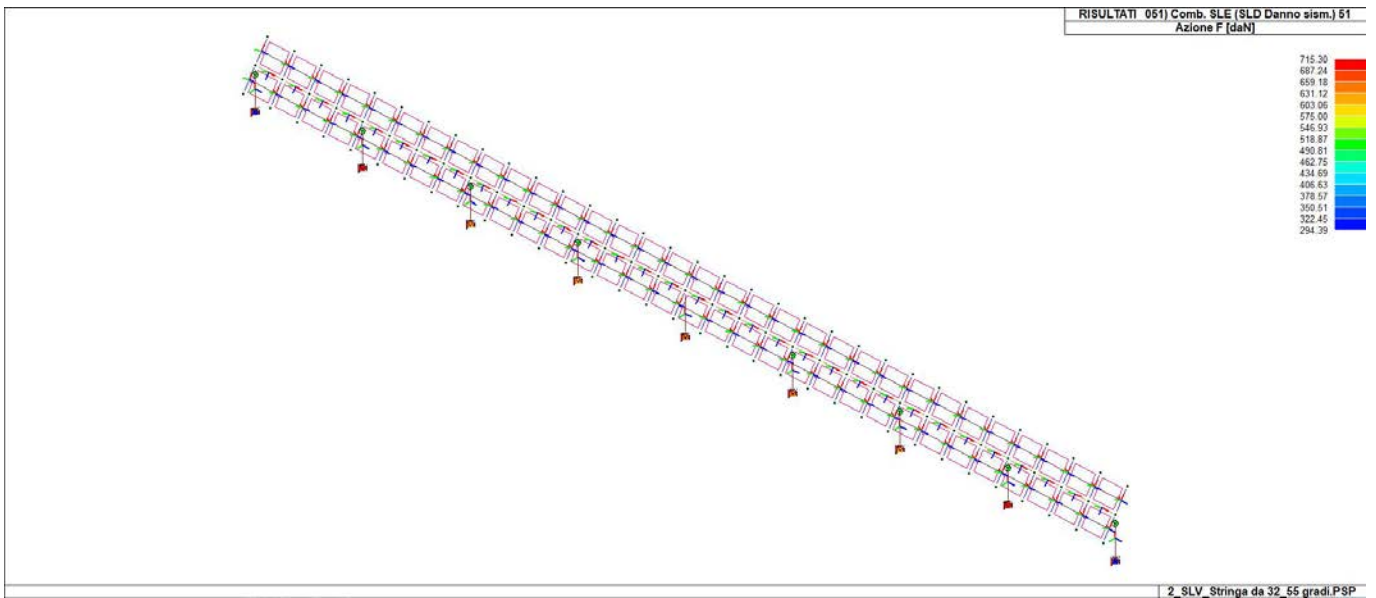
Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
31	3	296.63	-137.64	-697.78	2.753e+04	5.933e+04	-3.20
	2	-296.63	137.64	-685.01	-2.753e+04	-5.933e+04	3.20
	18	-88.99	458.45	-689.48	-9.169e+04	-1.780e+04	9.44
	19	88.99	-458.45	-693.31	9.169e+04	1.780e+04	-9.44
	1	-296.63	-137.41	-685.01	2.748e+04	-5.933e+04	-2.39
	3	296.63	-137.64	-697.78	2.753e+04	5.933e+04	-3.20
33	17	-234.68	-307.95	-617.15	9.932e+04	-2.747e+04	-2.51
	20	234.68	307.95	-617.15	-9.932e+04	2.747e+04	2.51
	18	-234.68	307.95	-617.15	-9.932e+04	-2.747e+04	2.64
	17	-234.68	-307.95	-617.15	9.932e+04	-2.747e+04	-2.51
	1	-782.26	-92.38	-617.15	2.980e+04	-9.158e+04	-0.56
	3	782.26	-92.38	-617.15	2.980e+04	9.158e+04	-0.98
36	1	-296.60	-115.83	-627.29	2.317e+04	-5.932e+04	-1.37
	4	296.60	115.83	-574.08	-2.317e+04	5.932e+04	1.37
	20	88.98	385.66	-592.70	-7.713e+04	1.780e+04	5.08
	17	-88.98	-385.66	-608.66	7.713e+04	-1.780e+04	-5.08
	1	-296.60	-115.83	-627.29	2.317e+04	-5.932e+04	-1.37
	3	296.60	-115.54	-574.08	2.311e+04	5.932e+04	-1.70
37	5	-296.37	-67.97	-299.86	1.359e+04	-5.927e+04	-22.19
	8	296.37	67.97	-281.18	-1.359e+04	5.927e+04	22.19
	28	88.91	204.80	-287.72	-4.096e+04	1.778e+04	77.12
	25	-88.91	-204.80	-293.32	4.096e+04	-1.778e+04	-77.12
	1	-296.37	-41.23	-299.86	8246.66	-5.927e+04	-12.77
	3	296.37	-26.88	-281.18	5376.64	5.927e+04	-14.84
38	5	-296.63	-137.64	-697.78	2.753e+04	-5.933e+04	3.20
	8	296.63	137.64	-685.01	-2.753e+04	5.933e+04	-3.20
	28	88.99	458.45	-689.48	-9.169e+04	1.780e+04	-9.44
	25	-88.99	-458.45	-693.31	9.169e+04	-1.780e+04	9.44
	1	-296.63	-87.09	-697.78	1.742e+04	-5.933e+04	0.76
	3	296.63	-86.87	-685.01	1.737e+04	5.933e+04	-0.06
39	3	296.30	-118.76	-725.53	2.375e+04	5.926e+04	3.35
	2	-296.30	118.76	-525.17	-2.375e+04	-5.926e+04	-3.35
	18	-88.89	395.80	-595.30	-7.916e+04	-1.778e+04	-11.80
	19	88.89	-395.80	-655.40	7.916e+04	1.778e+04	11.80
	1	-296.30	-118.72	-525.17	2.374e+04	-5.926e+04	3.77
	3	296.30	-118.76	-725.53	2.375e+04	5.926e+04	3.35
40	5	-296.30	-118.76	-725.53	2.375e+04	-5.926e+04	-3.35
	8	296.30	118.76	-525.17	-2.375e+04	5.926e+04	3.35
	28	88.89	395.80	-595.30	-7.916e+04	1.778e+04	11.80
	25	-88.89	-395.80	-655.40	7.916e+04	-1.778e+04	-11.80
	1	-296.30	-103.63	-725.53	2.073e+04	-5.926e+04	-4.86
	3	296.30	-103.59	-525.17	2.072e+04	5.926e+04	-5.29
42	7	296.60	-115.83	-627.29	2.317e+04	5.932e+04	1.37
	6	-296.60	115.83	-574.08	-2.317e+04	-5.932e+04	-1.37
	26	-88.98	385.66	-592.70	-7.713e+04	-1.780e+04	-5.08
	27	88.98	-385.66	-608.66	7.713e+04	1.780e+04	5.08
	1	-296.60	-85.34	-574.08	1.707e+04	-5.932e+04	0.11

73

3	296.60	-85.63	-627.29	1.713e+04	5.932e+04	-0.22
3	296.37	-67.97	-299.86	1.359e+04	5.927e+04	22.19
2	-296.37	67.97	-281.18	-1.359e+04	-5.927e+04	-22.19
18	-88.91	204.80	-287.72	-4.096e+04	-1.778e+04	-77.12
19	88.91	-204.80	-293.32	4.096e+04	1.778e+04	77.12
1	-296.37	-53.62	-281.18	1.072e+04	-5.927e+04	24.27
3	296.37	-67.97	-299.86	1.359e+04	5.927e+04	22.19



42_RIS_REAZIONI_001_Comb. SLU A1 (SLV sism.) 1



42_RIS_REAZIONI_051_Comb. SLE (SLD Danno sism.) 51

RISULTATI ELEMENTI TIPO TRAVE

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 **pilaastro**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

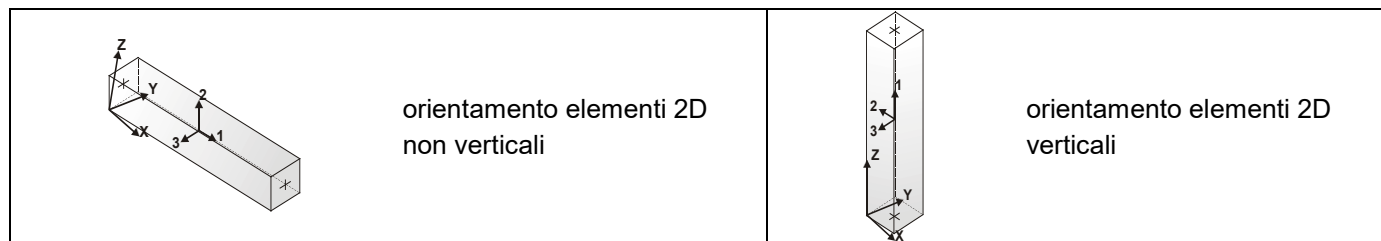
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

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

Pilas.	numero dell'elemento pilaastro
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.



Pilas.	Cmb	M3 mx/mn daN cm	M2 mx/mn daN cm	D 2 / D 3 cm	Q 2 / Q 3 daN	Pos. cm	N daN	V 2 daN	V 3 daN	T daN cm	M 2 daN cm	M 3 daN cm
22	1	2.073e+04	0.0	0.08	0.0	0.0	-725.53	-103.63	296.30	-4.86	-5.926e+04	2.073e+04
		0.0	-5.926e+04	-0.61	0.0	200.0	-664.62	-103.63	296.30	-4.86	0.0	0.0
22	3	2.072e+04	5.926e+04	0.08	0.0	0.0	-525.17	-103.59	-296.30	-5.29	5.926e+04	2.072e+04
		0.0	0.0	0.61	0.0	200.0	-464.25	-103.59	-296.30	-5.29	0.0	0.0
22	5	2.375e+04	0.0	0.09	0.0	0.0	-725.53	-118.76	296.30	-3.35	-5.926e+04	2.375e+04
		0.0	-5.926e+04	-0.61	0.0	200.0	-664.62	-118.76	296.30	-3.35	0.0	0.0
22	8	0.0	5.926e+04	-0.09	0.0	0.0	-525.17	118.76	-296.30	3.35	5.926e+04	-2.375e+04
		-2.375e+04	0.0	0.61	0.0	200.0	-464.25	118.76	-296.30	3.35	0.0	0.0
22	25	7.916e+04	0.0	0.30	0.0	0.0	-655.40	-395.80	88.89	-11.80	-1.778e+04	7.916e+04
		0.0	-1.778e+04	-0.18	0.0	200.0	-594.49	-395.80	88.89	-11.80	0.0	0.0
22	28	0.0	1.778e+04	-0.30	0.0	0.0	-595.30	395.80	-88.89	11.80	1.778e+04	-7.916e+04
		-7.916e+04	0.0	0.18	0.0	200.0	-534.38	395.80	-88.89	11.80	0.0	0.0
22	33	8058.52	0.0	0.03	0.0	0.0	-659.88	-40.29	102.12	-1.90	-2.042e+04	8058.52
		0.0	-2.042e+04	-0.21	0.0	200.0	-598.96	-40.29	102.12	-1.90	0.0	0.0
22	35	8055.66	2.042e+04	0.03	0.0	0.0	-590.82	-40.28	-102.12	-2.05	2.042e+04	8055.66
		0.0	0.0	0.21	0.0	200.0	-529.91	-40.28	-102.12	-2.05	0.0	0.0
22	37	9235.15	0.0	0.04	0.0	0.0	-659.88	-46.18	102.12	-1.31	-2.042e+04	9235.15
		0.0	-2.042e+04	-0.21	0.0	200.0	-598.96	-46.18	102.12	-1.31	0.0	0.0

6	59	110.15	270.29	0.60	-28.36	0.0	-45.79	20.81	-2.46	0.0	270.29	-729.17
		-729.17	0.0	0.06	0.0	110.0	-5.29	-7.55	-2.46	0.0	0.0	0.0
7	1	8.58	0.0	0.41	-28.36	0.0	1.49	2.13	-9.00	0.0	0.0	0.0
		-1324.92	-990.25	0.09	0.0	110.0	41.99	-26.22	-9.00	0.0	-990.25	-1324.92
7	4	0.0	990.25	-0.36	-28.36	0.0	-1.49	-2.13	9.00	0.0	0.0	0.0
		-1794.41	0.0	4.28e-03	0.0	110.0	39.00	-30.49	9.00	0.0	990.25	-1794.41
7	17	98.15	0.0	1.31	-28.36	0.0	4.98	7.11	-2.70	0.0	0.0	0.0
		-777.17	-297.07	0.07	0.0	110.0	45.48	-21.24	-2.70	0.0	-297.07	-777.17
7	18	0.0	0.0	-1.26	-28.36	0.0	-4.98	-7.11	-2.70	0.0	0.0	0.0
		-2342.16	-297.07	0.05	0.0	110.0	35.52	-35.47	-2.70	0.0	-297.07	-2342.16
7	19	98.15	297.07	1.31	-28.36	0.0	4.98	7.11	2.70	0.0	0.0	0.0
		-777.17	0.0	0.05	0.0	110.0	45.48	-21.24	2.70	0.0	297.07	-777.17
7	20	0.0	297.07	-1.26	-28.36	0.0	-4.98	-7.11	2.70	0.0	0.0	0.0
		-2342.16	0.0	0.02	0.0	110.0	35.52	-35.47	2.70	0.0	297.07	-2342.16
7	33	0.0	0.0	0.17	-28.36	0.0	0.58	0.83	-3.10	0.0	0.0	0.0
		-1468.39	-341.29	0.06	0.0	110.0	41.08	-27.53	-3.10	0.0	-341.29	-1468.39
7	36	0.0	341.29	-0.13	-28.36	0.0	-0.58	-0.83	3.10	0.0	0.0	0.0
		-1650.94	0.0	0.03	0.0	110.0	39.92	-29.19	3.10	0.0	341.29	-1650.94
7	50	0.0	0.0	-0.48	-28.36	0.0	-1.94	-2.77	-0.93	0.0	0.0	0.0
		-1863.92	-102.39	0.05	0.0	110.0	38.56	-31.12	-0.93	0.0	-102.39	-1863.92
7	51	13.66	102.39	0.52	-28.36	0.0	1.94	2.77	0.93	0.0	0.0	0.0
		-1255.41	0.0	0.05	0.0	110.0	42.44	-25.59	0.93	0.0	102.39	-1255.41
8	5	11.07	0.0	0.65	-28.36	0.0	1.75	2.50	-9.00	0.0	0.0	0.0
		-1285.04	-990.25	0.13	0.0	110.0	42.25	-25.86	-9.00	0.0	-990.25	-1285.04
8	8	0.0	990.25	-0.61	-28.36	0.0	-1.75	-2.50	9.00	0.0	0.0	0.0
		-1834.28	0.0	0.04	0.0	110.0	38.75	-30.85	9.00	0.0	990.25	-1834.28
8	25	133.75	0.0	2.12	-28.36	0.0	5.83	8.32	-2.70	0.0	0.0	0.0
		-644.26	-297.07	0.16	0.0	110.0	46.33	-20.04	-2.70	0.0	-297.07	-644.26
8	26	0.0	0.0	-2.07	-28.36	0.0	-5.83	-8.32	-2.70	0.0	0.0	0.0
		-2475.07	-297.07	0.02	0.0	110.0	34.67	-36.68	-2.70	0.0	-297.07	-2475.07
8	28	0.0	297.07	-2.07	-28.36	0.0	-5.83	-8.32	2.70	0.0	0.0	0.0
		-2475.07	0.0	1.98e-03	0.0	110.0	34.67	-36.68	2.70	0.0	297.07	-2475.07
8	37	0.58	0.0	0.27	-28.36	0.0	0.68	0.97	-3.10	0.0	0.0	0.0
		-1452.88	-341.29	0.10	0.0	110.0	41.18	-27.39	-3.10	0.0	-341.29	-1452.88
8	40	0.0	341.29	-0.22	-28.36	0.0	-0.68	-0.97	3.10	0.0	0.0	0.0
		-1666.45	0.0	0.06	0.0	110.0	39.82	-29.33	3.10	0.0	341.29	-1666.45
8	57	20.12	0.0	0.84	-28.36	0.0	2.27	3.24	-0.93	0.0	0.0	0.0
		-1203.73	-102.39	0.11	0.0	110.0	42.76	-25.12	-0.93	0.0	-102.39	-1203.73
8	58	0.0	0.0	-0.79	-28.36	0.0	-2.27	-3.24	-0.93	0.0	0.0	0.0
		-1915.60	-102.39	0.06	0.0	110.0	38.23	-31.59	-0.93	0.0	-102.39	-1915.60
8	60	0.0	102.39	-0.79	-28.36	0.0	-2.27	-3.24	0.93	0.0	0.0	0.0
		-1915.60	0.0	0.05	0.0	110.0	38.23	-31.59	0.93	0.0	102.39	-1915.60
9	2	3210.38	1.464e+04	-0.02	-23.44	0.0	-37.47	141.86	-163.20	2356.83	1.464e+04	-1.371e+04
		-1.371e+04	-4404.28	0.02	33.47	130.0	-37.47	118.42	-129.73	2356.83	-4404.28	3210.38
9	3	2785.38	2.057e+04	-0.04	-23.44	0.0	37.47	117.32	-206.95	-2356.83	2.057e+04	-1.094e+04
		-1.094e+04	-4158.57	0.07	33.47	130.0	37.47	93.89	-173.48	-2356.83	-4158.57	2785.38
9	25	1216.41	2.584e+04	-0.01	-23.44	0.0	-11.24	18.20	-259.09	-1.226e+04	2.584e+04	298.94
		298.94	-5662.85	0.05	33.47	130.0	-11.24	-5.24	-225.62	-1.226e+04	-5662.85	1141.39
9	27	1297.21	2.649e+04	-0.02	-23.44	0.0	11.24	25.46	-261.98	-1.226e+04	2.649e+04	-488.62
		-488.62	-5390.75	0.06	33.47	130.0	11.24	2.02	-228.51	-1.226e+04	-5390.75	1297.21
9	28	4854.37	9362.73	-0.05	-23.44	0.0	11.24	240.99	-111.06	1.226e+04	9362.73	-2.495e+04
		-2.495e+04	-2900.00	0.04	33.47	130.0	11.24	217.55	-77.59	1.226e+04	-2900.00	4854.37
9	34	3091.98	1.650e+04	-0.03	-23.44	0.0	-12.91	134.90	-176.78	916.41	1.650e+04	-1.292e+04
		-1.292e+04	-4309.16	0.04	33.47	130.0	-12.91	111.46	-143.31	916.41	-4309.16	3091.98
9	35	2903.78	1.871e+04	-0.04	-23.44	0.0	12.91	124.29	-193.37	-916.41	1.871e+04	-1.173e+04
		-1.173e+04	-4253.69	0.06	33.47	130.0	12.91	100.85	-159.90	-916.41	-4253.69	2903.78
9	57	2279.46	2.082e+04	-0.03	-23.44	0.0	-3.87	86.44	-213.92	-4767.54	2.082e+04	-7434.24
		-7434.24	-4812.55	0.05	33.47	130.0	-3.87	63.00	-180.45	-4767.54	-4812.55	2279.46
9	59	2333.17	2.104e+04	-0.03	-23.44	0.0	3.87	88.94	-214.91	-4767.54	2.104e+04	-7705.67
		-7705.67	-4718.77	0.05	33.47	130.0	3.87	65.50	-181.44	-4767.54	-4718.77	2333.17
9	60	3716.30	1.438e+04	-0.04	-23.44	0.0	3.87	172.74	-156.23	4767.54	1.438e+04	-1.722e+04
		-1.722e+04	-3750.30	0.04	33.47	130.0	3.87	149.31	-122.76	4767.54	-3750.30	3716.30
10	1	5.84	0.0	0.36	-28.36	0.0	1.22	1.74	-9.00	0.0	0.0	0.0
		-1368.77	-990.25	0.02	0.0	110.0	41.71	-26.62	-9.00	0.0	-990.25	-1368.77
10	3	5.84	990.25	0.36	-28.36	0.0	1.22	1.74	9.00	0.0	0.0	0.0
		-1368.77	0.0	-0.02	0.0	110.0	41.71	-26.62	9.00	0.0	990.25	-1368.77
10	25	101.47	0.0	1.44	-28.36	0.0	5.07	7.23	-2.70	0.0	0.0	0.0
		-763.88	-297.07	3.25e-03	0.0	110.0	45.56	-21.12	-2.70	0.0	-297.07	-763.88
10	26	0.0	0.0	-1.40	-28.36	0.0	-5.07	-7.23	-2.70	0.0	0.0	0.0
		-2355.45	-297.07	4.55e-03	0.0	110.0	35.43	-35.59	-2.70	0.0	-297.07	-2355.45
10	28	0.0	297.07	-1.40	-28.36	0.0	-5.07	-7.23	2.70	0.0	0.0	0.0
		-2355.45	0.0	-6.14e-03	0.0	110.0	35.43	-35.59	2.70	0.0	297.07	-2355.45
10	33	0.0	0.0	0.15	-28.36	0.0	0.47	0.67	-3.10	0.0	0.0	0.0
		-1485.44	-341.29	4.94e-03	0.0	110.0	40.97	-27.68	-3.10	0.0	-341.29	-1485.44
10	35	0.0	341.29	0.15	-28.36	0.0	0.47	0.67	3.10	0.0	0.0	0.0
		-1485.44	0.0	-7.39e-03	0.0	110.0	40.97	-27.68	3.10	0.0	341.29	-1485.44
10	57	14.31	0.0	0.57	-28.36	0.0	1.97	2.81	-0.93	0.0	0.0	0.0

24	19	471.04	2.536e+04	0.02	-23.44	0.0	43.90	7.79	-251.19	1.091e+04	2.536e+04	303.19
		-207.01	-5119.90	0.05	33.47	130.0	43.90	-15.64	-217.72	1.091e+04	-5119.90	-207.01
24	20	5114.03	8224.85	-0.06	-23.44	0.0	43.90	236.96	-90.73	-1.091e+04	8224.85	-2.417e+04
		-2.417e+04	-1394.08	2.75e-03	33.47	130.0	43.90	213.52	-57.26	-1.091e+04	-1394.08	5114.03
24	33	1552.31	1.953e+04	-0.01	-23.44	0.0	-50.43	110.97	-191.31	1272.95	1.953e+04	-1.135e+04
		-1.135e+04	-3161.23	0.03	33.47	130.0	-50.43	87.54	-157.84	1272.95	-3161.23	1552.31
24	36	2804.78	1.567e+04	-0.02	-23.44	0.0	50.43	135.60	-160.84	-1272.95	1.567e+04	-1.330e+04
		-1.330e+04	-3061.37	0.03	33.47	130.0	50.43	112.17	-127.37	-1272.95	-3061.37	2804.78
24	49	1049.29	2.121e+04	-2.93e-03	-23.44	0.0	-15.13	79.05	-209.04	4243.17	2.121e+04	-7704.05
		-7704.05	-3785.44	0.03	33.47	130.0	-15.13	55.62	-175.56	4243.17	-3785.44	1049.29
24	50	3118.27	1.455e+04	-0.03	-23.44	0.0	-15.13	168.16	-146.64	-4243.17	1.455e+04	-1.722e+04
		-1.722e+04	-2336.73	0.01	33.47	130.0	-15.13	144.72	-113.17	-4243.17	-2336.73	3118.27
24	51	1238.83	2.065e+04	-4.37e-03	-23.44	0.0	15.13	78.42	-205.51	4243.17	2.065e+04	-7432.59
		-7432.59	-3885.87	0.04	33.47	130.0	15.13	54.98	-172.04	4243.17	-3885.87	1238.83
24	52	3307.80	1.399e+04	-0.03	-23.44	0.0	15.13	167.53	-143.12	-4243.17	1.399e+04	-1.695e+04
		-1.695e+04	-2437.16	0.02	33.47	130.0	15.13	144.09	-109.64	-4243.17	-2437.16	3307.80
25	1	10.57	0.0	0.63	-28.36	0.0	1.70	2.42	-9.00	0.0	0.0	0.0
		-1293.02	-990.25	0.13	0.0	110.0	42.20	-25.93	-9.00	0.0	-990.25	-1293.02
25	4	0.0	990.25	-0.59	-28.36	0.0	-1.70	-2.42	9.00	0.0	0.0	0.0
		-1826.31	0.0	0.06	0.0	110.0	38.80	-30.78	9.00	0.0	990.25	-1826.31
25	17	125.45	0.0	2.06	-28.36	0.0	5.66	8.08	-2.70	0.0	0.0	0.0
		-670.84	-297.07	0.13	0.0	110.0	46.16	-20.28	-2.70	0.0	-297.07	-670.84
25	18	0.0	0.0	-2.02	-28.36	0.0	-5.66	-8.08	-2.70	0.0	0.0	0.0
		-2448.49	-297.07	0.07	0.0	110.0	34.84	-36.44	-2.70	0.0	-297.07	-2448.49
25	19	125.45	297.07	2.06	-28.36	0.0	5.66	8.08	2.70	0.0	0.0	0.0
		-670.84	0.0	0.11	0.0	110.0	46.16	-20.28	2.70	0.0	297.07	-670.84
25	20	0.0	297.07	-2.02	-28.36	0.0	-5.66	-8.08	2.70	0.0	0.0	0.0
		-2448.49	0.0	0.05	0.0	110.0	34.84	-36.44	2.70	0.0	297.07	-2448.49
25	33	0.39	0.0	0.26	-28.36	0.0	0.66	0.94	-3.10	0.0	0.0	0.0
		-1455.98	-341.29	0.11	0.0	110.0	41.16	-27.42	-3.10	0.0	-341.29	-1455.98
25	36	0.0	341.29	-0.22	-28.36	0.0	-0.66	-0.94	3.10	0.0	0.0	0.0
		-1663.34	0.0	0.08	0.0	110.0	39.84	-29.30	3.10	0.0	341.29	-1663.34
25	49	18.83	0.0	0.81	-28.36	0.0	2.20	3.14	-0.93	0.0	0.0	0.0
		-1214.06	-102.39	0.11	0.0	110.0	42.70	-25.22	-0.93	0.0	-102.39	-1214.06
25	50	0.0	0.0	-0.77	-28.36	0.0	-2.20	-3.14	-0.93	0.0	0.0	0.0
		-1905.26	-102.39	0.08	0.0	110.0	38.30	-31.50	-0.93	0.0	-102.39	-1905.26
25	51	18.83	102.39	0.81	-28.36	0.0	2.20	3.14	0.93	0.0	0.0	0.0
		-1214.06	0.0	0.10	0.0	110.0	42.70	-25.22	0.93	0.0	102.39	-1214.06
26	1	6.84	0.0	0.23	-28.36	0.0	1.32	1.88	-9.00	0.0	0.0	0.0
		-1352.83	-990.25	0.07	0.0	110.0	41.82	-26.48	-9.00	0.0	-990.25	-1352.83
26	4	0.0	990.25	-0.19	-28.36	0.0	-1.32	-1.88	9.00	0.0	0.0	0.0
		-1766.50	0.0	-0.07	0.0	110.0	39.18	-30.24	9.00	0.0	990.25	-1766.50
26	25	88.18	0.0	0.82	-28.36	0.0	4.73	6.75	-2.70	0.0	0.0	0.0
		-817.04	-297.07	0.04	0.0	110.0	45.23	-21.61	-2.70	0.0	-297.07	-817.04
26	27	88.18	297.07	0.82	-28.36	0.0	4.73	6.75	2.70	0.0	0.0	0.0
		-817.04	0.0	6.48e-03	0.0	110.0	45.23	-21.61	2.70	0.0	297.07	-817.04
26	28	0.0	297.07	-0.78	-28.36	0.0	-4.73	-6.75	2.70	0.0	0.0	0.0
		-2302.29	0.0	-0.04	0.0	110.0	35.77	-35.11	2.70	0.0	297.07	-2302.29
26	33	0.0	0.0	0.10	-28.36	0.0	0.51	0.73	-3.10	0.0	0.0	0.0
		-1479.24	-341.29	0.02	0.0	110.0	41.01	-27.63	-3.10	0.0	-341.29	-1479.24
26	36	0.0	341.29	-0.06	-28.36	0.0	-0.51	-0.73	3.10	0.0	0.0	0.0
		-1640.09	0.0	-0.02	0.0	110.0	39.99	-29.09	3.10	0.0	341.29	-1640.09
26	57	11.96	0.0	0.33	-28.36	0.0	1.84	2.63	-0.93	0.0	0.0	0.0
		-1270.91	-102.39	0.02	0.0	110.0	42.34	-25.73	-0.93	0.0	-102.39	-1270.91
26	58	0.0	0.0	-0.29	-28.36	0.0	-1.84	-2.62	-0.93	0.0	0.0	0.0
		-1848.42	-102.39	-2.51e-03	0.0	110.0	38.66	-30.98	-0.93	0.0	-102.39	-1848.42
26	59	11.96	102.39	0.33	-28.36	0.0	1.84	2.63	0.93	0.0	0.0	0.0
		-1270.91	0.0	3.67e-03	0.0	110.0	42.34	-25.73	0.93	0.0	102.39	-1270.91
27	1	51.50	0.0	0.12	-28.36	0.0	-44.11	23.20	23.77	0.0	-2614.15	-992.58
		-992.58	-2614.15	-0.26	0.0	110.0	-3.61	-5.16	23.77	0.0	0.0	0.0
27	3	51.50	2614.15	0.12	-28.36	0.0	-44.11	23.20	-23.77	0.0	2614.15	-992.58
		-992.58	0.0	0.26	0.0	110.0	-3.61	-5.16	-23.77	0.0	0.0	0.0
27	17	572.18	0.0	0.44	-28.36	0.0	-52.53	11.17	7.13	0.0	-784.24	330.62
		0.0	-784.24	-0.07	0.0	110.0	-12.03	-17.18	7.13	0.0	0.0	0.0
27	18	0.0	0.0	-0.49	-28.36	0.0	-28.47	45.54	7.13	0.0	-784.24	-3449.94
		-3449.94	-784.24	-0.08	0.0	110.0	12.03	17.18	7.13	0.0	0.0	0.0
27	33	7.69	0.0	0.03	-28.36	0.0	-41.90	26.35	8.19	0.0	-900.98	-1339.17
		-1339.17	-900.98	-0.09	0.0	110.0	-1.40	-2.00	8.19	0.0	0.0	0.0
27	35	7.69	900.98	0.03	-28.36	0.0	-41.90	26.35	-8.19	0.0	900.98	-1339.17
		-1339.17	0.0	0.09	0.0	110.0	-1.40	-2.00	-8.19	0.0	0.0	0.0
27	49	86.27	0.0	0.16	-28.36	0.0	-45.18	21.68	2.46	0.0	-270.29	-824.67
		-824.67	-270.29	-0.03	0.0	110.0	-4.68	-6.68	2.46	0.0	0.0	0.0
27	50	0.0	0.0	-0.20	-28.36	0.0	-35.82	35.04	2.46	0.0	-270.29	-2294.66
		-2294.66	-270.29	-0.03	0.0	110.0	4.68	6.68	2.46	0.0	0.0	0.0
27	57	86.27	0.0	0.16	-28.36	0.0	-45.18	21.68	2.46	0.0	-270.29	-824.67
		-824.67	-270.29	-0.03	0.0	110.0	-4.68	-6.68	2.46	0.0	0.0	0.0
28	1	1.359e+04	-7380.39	0.12	-23.44	0.0	334.73	-37.24	94.19	-4639.65	-2.180e+04	1.359e+04

31	49	103.33	0.0	0.50	-28.36	0.0	-45.61	21.06	2.46	0.0	-270.29	-756.45
		-756.45	-270.29	0.05	0.0	110.0	-5.11	-7.30	2.46	0.0	0.0	0.0
31	52	0.0	270.29	-0.54	-28.36	0.0	-35.39	35.66	-2.46	0.0	270.29	-2362.87
		-2362.87	0.0	0.05	0.0	110.0	5.11	7.30	-2.46	0.0	0.0	0.0
32	1	7.58	0.0	0.21	-28.36	0.0	1.39	1.99	-9.00	0.0	0.0	0.0
		-1340.86	-990.25	0.02	0.0	110.0	41.89	-26.37	-9.00	0.0	-990.25	-1340.86
32	4	0.0	990.25	-0.16	-28.36	0.0	-1.39	-1.99	9.00	0.0	0.0	0.0
		-1778.46	0.0	0.07	0.0	110.0	39.11	-30.35	9.00	0.0	990.25	-1778.46
32	17	84.86	0.0	0.63	-28.36	0.0	4.64	6.63	-2.70	0.0	0.0	0.0
		-830.33	-297.07	0.04	0.0	110.0	45.14	-21.73	-2.70	0.0	-297.07	-830.33
32	18	0.0	0.0	-0.59	-28.36	0.0	-4.64	-6.63	-2.70	0.0	0.0	0.0
		-2289.00	-297.07	0.03	0.0	110.0	35.86	-34.99	-2.70	0.0	-297.07	-2289.00
32	20	0.0	297.07	-0.59	-28.36	0.0	-4.64	-6.63	2.70	0.0	0.0	0.0
		-2289.00	0.0	0.05	0.0	110.0	35.86	-34.99	2.70	0.0	297.07	-2289.00
32	33	0.0	0.0	0.09	-28.36	0.0	0.54	0.77	-3.10	0.0	0.0	0.0
		-1474.59	-341.29	0.04	0.0	110.0	41.04	-27.58	-3.10	0.0	-341.29	-1474.59
32	35	0.0	341.29	0.09	-28.36	0.0	0.54	0.77	3.10	0.0	0.0	0.0
		-1474.59	0.0	0.05	0.0	110.0	41.04	-27.58	3.10	0.0	341.29	-1474.59
32	49	11.63	0.0	0.26	-28.36	0.0	1.81	2.58	-0.93	0.0	0.0	0.0
		-1276.08	-102.39	0.04	0.0	110.0	42.30	-25.78	-0.93	0.0	-102.39	-1276.08
32	50	0.0	0.0	-0.22	-28.36	0.0	-1.81	-2.58	-0.93	0.0	0.0	0.0
		-1843.25	-102.39	0.04	0.0	110.0	38.69	-30.94	-0.93	0.0	-102.39	-1843.25
32	51	11.63	102.39	0.26	-28.36	0.0	1.81	2.58	0.93	0.0	0.0	0.0
		-1276.08	0.0	0.05	0.0	110.0	42.30	-25.78	0.93	0.0	102.39	-1276.08
33	6	0.0	0.0	-0.59	-28.36	0.0	-1.70	-2.42	-9.00	0.0	0.0	0.0
		-1826.31	-990.25	-0.06	0.0	110.0	38.80	-30.78	-9.00	0.0	-990.25	-1826.31
33	7	10.57	990.25	0.63	-28.36	0.0	1.70	2.42	9.00	0.0	0.0	0.0
		-1293.02	0.0	-0.13	0.0	110.0	42.20	-25.93	9.00	0.0	990.25	-1293.02
33	25	125.45	0.0	2.06	-28.36	0.0	5.66	8.08	-2.70	0.0	0.0	0.0
		-670.84	-297.07	-0.11	0.0	110.0	46.16	-20.28	-2.70	0.0	-297.07	-670.84
33	26	0.0	0.0	-2.02	-28.36	0.0	-5.66	-8.08	-2.70	0.0	0.0	0.0
		-2448.49	-297.07	-0.05	0.0	110.0	34.84	-36.44	-2.70	0.0	-297.07	-2448.49
33	27	125.45	297.07	2.06	-28.36	0.0	5.66	8.08	2.70	0.0	0.0	0.0
		-670.84	0.0	-0.13	0.0	110.0	46.16	-20.28	2.70	0.0	297.07	-670.84
33	38	0.0	0.0	-0.22	-28.36	0.0	-0.66	-0.94	-3.10	0.0	0.0	0.0
		-1663.34	-341.29	-0.08	0.0	110.0	39.84	-29.30	-3.10	0.0	-341.29	-1663.34
33	39	0.39	341.29	0.26	-28.36	0.0	0.66	0.94	3.10	0.0	0.0	0.0
		-1455.98	0.0	-0.11	0.0	110.0	41.16	-27.42	3.10	0.0	341.29	-1455.98
33	57	18.83	0.0	0.81	-28.36	0.0	2.20	3.14	-0.93	0.0	0.0	0.0
		-1214.06	-102.39	-0.10	0.0	110.0	42.70	-25.22	-0.93	0.0	-102.39	-1214.06
33	58	0.0	0.0	-0.77	-28.36	0.0	-2.20	-3.14	-0.93	0.0	0.0	0.0
		-1905.26	-102.39	-0.08	0.0	110.0	38.30	-31.50	-0.93	0.0	-102.39	-1905.26
33	59	18.83	102.39	0.81	-28.36	0.0	2.20	3.14	0.93	0.0	0.0	0.0
		-1214.06	0.0	-0.11	0.0	110.0	42.70	-25.22	0.93	0.0	102.39	-1214.06
34	1	9.83	0.0	0.58	-28.36	0.0	1.62	2.32	-9.00	0.0	0.0	0.0
		-1304.98	-990.25	0.02	0.0	110.0	42.12	-26.04	-9.00	0.0	-990.25	-1304.98
34	4	0.0	990.25	-0.53	-28.36	0.0	-1.62	-2.32	9.00	0.0	0.0	0.0
		-1814.35	0.0	-0.04	0.0	110.0	38.88	-30.67	9.00	0.0	990.25	-1814.35
34	17	114.76	0.0	1.87	-28.36	0.0	5.40	7.72	-2.70	0.0	0.0	0.0
		-710.72	-297.07	7.63e-03	0.0	110.0	45.90	-20.64	-2.70	0.0	-297.07	-710.72
34	18	0.0	0.0	-1.83	-28.36	0.0	-5.40	-7.72	-2.70	0.0	0.0	0.0
		-2408.61	-297.07	-3.40e-03	0.0	110.0	35.10	-36.08	-2.70	0.0	-297.07	-2408.61
34	19	114.76	297.07	1.87	-28.36	0.0	5.40	7.72	2.70	0.0	0.0	0.0
		-710.72	0.0	-9.47e-03	0.0	110.0	45.90	-20.64	2.70	0.0	297.07	-710.72
34	33	0.10	0.0	0.24	-28.36	0.0	0.63	0.90	-3.10	0.0	0.0	0.0
		-1460.64	-341.29	4.56e-03	0.0	110.0	41.13	-27.46	-3.10	0.0	-341.29	-1460.64
34	36	0.0	341.29	-0.19	-28.36	0.0	-0.63	-0.90	3.10	0.0	0.0	0.0
		-1658.69	0.0	-0.02	0.0	110.0	39.87	-29.26	3.10	0.0	341.29	-1658.69
34	49	16.89	0.0	0.74	-28.36	0.0	2.10	3.00	-0.93	0.0	0.0	0.0
		-1229.57	-102.39	-1.34e-03	0.0	110.0	42.60	-25.36	-0.93	0.0	-102.39	-1229.57
34	50	0.0	0.0	-0.70	-28.36	0.0	-2.10	-3.00	-0.93	0.0	0.0	0.0
		-1889.76	-102.39	-5.63e-03	0.0	110.0	38.40	-31.36	-0.93	0.0	-102.39	-1889.76
34	51	16.89	102.39	0.74	-28.36	0.0	2.10	3.00	0.93	0.0	0.0	0.0
		-1229.57	0.0	-7.24e-03	0.0	110.0	42.60	-25.36	0.93	0.0	102.39	-1229.57
35	6	0.0	0.0	-0.36	-28.36	0.0	-1.49	-2.13	-9.00	0.0	0.0	0.0
		-1794.41	-990.25	-4.28e-03	0.0	110.0	39.00	-30.49	-9.00	0.0	-990.25	-1794.41
35	7	8.58	990.25	0.41	-28.36	0.0	1.49	2.13	9.00	0.0	0.0	0.0
		-1324.92	0.0	-0.09	0.0	110.0	41.99	-26.22	9.00	0.0	990.25	-1324.92
35	25	98.15	0.0	1.31	-28.36	0.0	4.98	7.11	-2.70	0.0	0.0	0.0
		-777.17	-297.07	-0.05	0.0	110.0	45.48	-21.24	-2.70	0.0	-297.07	-777.17
35	26	0.0	0.0	-1.26	-28.36	0.0	-4.98	-7.11	-2.70	0.0	0.0	0.0
		-2342.16	-297.07	-0.02	0.0	110.0	35.52	-35.47	-2.70	0.0	-297.07	-2342.16
35	27	98.15	297.07	1.31	-28.36	0.0	4.98	7.11	2.70	0.0	0.0	0.0
		-777.17	0.0	-0.07	0.0	110.0	45.48	-21.24	2.70	0.0	297.07	-777.17
35	38	0.0	0.0	-0.13	-28.36	0.0	-0.58	-0.83	-3.10	0.0	0.0	0.0
		-1650.94	-341.29	-0.03	0.0	110.0	39.92	-29.19	-3.10	0.0	-341.29	-1650.94
35	39	0.0	341.29	0.17	-28.36	0.0	0.58	0.83	3.10	0.0	0.0	0.0

		-721.09	0.0	-0.13	0.0	110.0	-1.03	-1.47	-4.64	0.0	0.0	0.0
44	49	82.42	0.0	0.82	-16.05	0.0	-26.36	11.15	1.39	0.0	-153.02	-343.30
		-343.30	-153.02	-0.18	0.0	110.0	-3.44	-4.91	1.39	0.0	0.0	0.0
44	50	0.0	0.0	-0.85	-16.05	0.0	-19.49	20.96	1.39	0.0	-153.02	-1422.68
		-1422.68	-153.02	-0.10	0.0	110.0	3.44	4.91	1.39	0.0	0.0	0.0
44	51	82.42	153.02	0.82	-16.05	0.0	-26.36	11.15	-1.39	0.0	153.02	-343.30
		-343.30	0.0	-0.17	0.0	110.0	-3.44	-4.91	-1.39	0.0	0.0	0.0
45	2	0.0	0.0	-0.22	-28.36	0.0	-1.42	-2.03	-9.00	0.0	0.0	0.0
		-1782.45	-990.25	0.07	0.0	110.0	39.08	-30.38	-9.00	0.0	-990.25	-1782.45
45	3	7.83	990.25	0.26	-28.36	0.0	1.42	2.03	9.00	0.0	0.0	0.0
		-1336.88	0.0	-0.07	0.0	110.0	41.92	-26.33	9.00	0.0	990.25	-1336.88
45	17	88.18	0.0	0.82	-28.36	0.0	4.73	6.75	-2.70	0.0	0.0	0.0
		-817.04	-297.07	-6.48e-03	0.0	110.0	45.23	-21.61	-2.70	0.0	-297.07	-817.04
45	18	0.0	0.0	-0.78	-28.36	0.0	-4.73	-6.75	-2.70	0.0	0.0	0.0
		-2302.29	-297.07	0.04	0.0	110.0	35.77	-35.11	-2.70	0.0	-297.07	-2302.29
45	20	0.0	297.07	-0.78	-28.36	0.0	-4.73	-6.75	2.70	0.0	0.0	0.0
		-2302.29	0.0	5.31e-03	0.0	110.0	35.77	-35.11	2.70	0.0	297.07	-2302.29
45	38	0.0	0.0	-0.06	-28.36	0.0	-0.51	-0.73	-3.10	0.0	0.0	0.0
		-1640.09	-341.29	0.02	0.0	110.0	39.99	-29.09	-3.10	0.0	-341.29	-1640.09
45	39	0.0	341.29	0.10	-28.36	0.0	0.51	0.73	3.10	0.0	0.0	0.0
		-1479.24	0.0	-0.02	0.0	110.0	41.01	-27.63	3.10	0.0	341.29	-1479.24
45	49	11.96	0.0	0.33	-28.36	0.0	1.84	2.63	-0.93	0.0	0.0	0.0
		-1270.91	-102.39	-3.67e-03	0.0	110.0	42.34	-25.73	-0.93	0.0	-102.39	-1270.91
45	50	0.0	0.0	-0.29	-28.36	0.0	-1.84	-2.62	-0.93	0.0	0.0	0.0
		-1848.42	-102.39	0.01	0.0	110.0	38.66	-30.98	-0.93	0.0	-102.39	-1848.42
45	52	0.0	102.39	-0.29	-28.36	0.0	-1.84	-2.62	0.93	0.0	0.0	0.0
		-1848.42	0.0	2.51e-03	0.0	110.0	38.66	-30.98	0.93	0.0	102.39	-1848.42
46	1	8.83	0.0	0.45	-28.36	0.0	1.52	2.17	-9.00	0.0	0.0	0.0
		-1320.93	-990.25	0.02	0.0	110.0	42.02	-26.19	-9.00	0.0	-990.25	-1320.93
46	3	8.83	990.25	0.45	-28.36	0.0	1.52	2.17	9.00	0.0	0.0	0.0
		-1320.93	0.0	-0.02	0.0	110.0	42.02	-26.19	9.00	0.0	990.25	-1320.93
46	18	0.0	0.0	-1.40	-28.36	0.0	-5.07	-7.23	-2.70	0.0	0.0	0.0
		-2355.45	-297.07	6.14e-03	0.0	110.0	35.43	-35.59	-2.70	0.0	-297.07	-2355.45
46	19	101.47	297.07	1.44	-28.36	0.0	5.07	7.23	2.70	0.0	0.0	0.0
		-763.88	0.0	-3.25e-03	0.0	110.0	45.56	-21.12	2.70	0.0	297.07	-763.88
46	20	0.0	297.07	-1.40	-28.36	0.0	-5.07	-7.23	2.70	0.0	0.0	0.0
		-2355.45	0.0	-4.55e-03	0.0	110.0	35.43	-35.59	2.70	0.0	297.07	-2355.45
46	33	0.0	0.0	0.19	-28.36	0.0	0.59	0.84	-3.10	0.0	0.0	0.0
		-1466.84	-341.29	7.80e-03	0.0	110.0	41.09	-27.51	-3.10	0.0	-341.29	-1466.84
46	35	0.0	341.29	0.19	-28.36	0.0	0.59	0.84	3.10	0.0	0.0	0.0
		-1466.84	0.0	-4.58e-03	0.0	110.0	41.09	-27.51	3.10	0.0	341.29	-1466.84
46	49	14.31	0.0	0.57	-28.36	0.0	1.97	2.81	-0.93	0.0	0.0	0.0
		-1250.24	-102.39	3.85e-03	0.0	110.0	42.47	-25.54	-0.93	0.0	-102.39	-1250.24
46	51	14.31	102.39	0.57	-28.36	0.0	1.97	2.81	0.93	0.0	0.0	0.0
		-1250.24	0.0	-3.72e-04	0.0	110.0	42.47	-25.54	0.93	0.0	102.39	-1250.24
46	52	0.0	102.39	-0.53	-28.36	0.0	-1.97	-2.81	0.93	0.0	0.0	0.0
		-1869.09	0.0	-7.48e-04	0.0	110.0	38.53	-31.17	0.93	0.0	102.39	-1869.09
47	1	9.33	0.0	0.52	-28.36	0.0	1.57	2.24	-9.00	0.0	0.0	0.0
		-1312.95	-990.25	8.58e-03	0.0	110.0	42.07	-26.11	-9.00	0.0	-990.25	-1312.95
47	4	0.0	990.25	-0.48	-28.36	0.0	-1.57	-2.24	9.00	0.0	0.0	0.0
		-1806.37	0.0	-0.02	0.0	110.0	38.93	-30.60	9.00	0.0	990.25	-1806.37
47	17	108.11	0.0	1.68	-28.36	0.0	5.23	7.48	-2.70	0.0	0.0	0.0
		-737.30	-297.07	2.17e-03	0.0	110.0	45.73	-20.88	-2.70	0.0	-297.07	-737.30
47	18	0.0	0.0	-1.64	-28.36	0.0	-5.23	-7.48	-2.70	0.0	0.0	0.0
		-2382.03	-297.07	-0.01	0.0	110.0	35.26	-35.83	-2.70	0.0	-297.07	-2382.03
47	33	0.0	0.0	0.22	-28.36	0.0	0.61	0.87	-3.10	0.0	0.0	0.0
		-1463.74	-341.29	-4.23e-03	0.0	110.0	41.11	-27.49	-3.10	0.0	-341.29	-1463.74
47	35	0.0	341.29	0.22	-28.36	0.0	0.61	0.87	3.10	0.0	0.0	0.0
		-1463.74	0.0	-0.01	0.0	110.0	41.11	-27.49	3.10	0.0	341.29	-1463.74
47	49	15.60	0.0	0.67	-28.36	0.0	2.04	2.91	-0.93	0.0	0.0	0.0
		-1239.90	-102.39	-5.53e-03	0.0	110.0	42.53	-25.45	-0.93	0.0	-102.39	-1239.90
47	50	0.0	0.0	-0.62	-28.36	0.0	-2.04	-2.91	-0.93	0.0	0.0	0.0
		-1879.43	-102.39	-0.01	0.0	110.0	38.46	-31.26	-0.93	0.0	-102.39	-1879.43
48	1	9150.32	926.68	-0.07	-23.44	0.0	-225.54	82.03	-165.92	-140.21	926.68	10.46
		10.46	-1.847e+04	0.15	33.47	130.0	-225.54	58.59	-132.45	-140.21	-1.847e+04	9150.32
48	3	9287.44	-910.85	-0.07	-23.44	0.0	225.54	83.07	-142.39	-140.21	-910.85	12.16
		12.16	-1.725e+04	0.16	33.47	130.0	225.54	59.63	-108.92	-140.21	-1.725e+04	9287.44
48	5	7482.40	932.09	-0.05	-23.44	0.0	-225.54	69.14	-174.95	-258.66	932.09	18.18
		18.18	-1.964e+04	0.16	33.47	130.0	-225.54	45.70	-141.48	-258.66	-1.964e+04	7482.40
48	25	63.17	320.04	0.06	-23.44	0.0	-67.66	-0.34	-215.61	-862.21	320.04	63.17
		-1503.91	-2.553e+04	0.24	33.47	130.0	-67.66	-23.77	-182.14	-862.21	-2.553e+04	-1503.91
48	28	2.435e+04	-320.04	-0.25	-23.44	0.0	67.66	199.51	-68.84	862.21	-320.04	-63.17
		-63.17	-7093.32	0.03	33.47	130.0	67.66	176.07	-35.37	862.21	-7093.32	2.435e+04
48	33	1.054e+04	319.73	-0.08	-23.44	0.0	-77.73	92.78	-150.92	-54.52	319.73	4.10
		4.10	-1.712e+04	0.14	33.47	130.0	-77.73	69.34	-117.45	-54.52	-1.712e+04	1.054e+04
48	35	1.059e+04	-313.58	-0.08	-23.44	0.0	77.73	93.14	-142.81	-54.52	-313.58	4.69
		4.69	-1.670e+04	0.14	33.47	130.0	77.73	69.70	-109.34	-54.52	-1.670e+04	1.059e+04

76	49	19.48	0.0	0.83	-28.36	0.0	2.23	3.19	-0.93	0.0	0.0	0.0
		-1208.90	-102.39	0.02	0.0	110.0	42.73	-25.17	-0.93	0.0	-102.39	-1208.90
76	50	0.0	0.0	-0.78	-28.36	0.0	-2.23	-3.19	-0.93	0.0	0.0	0.0
		-1910.43	-102.39	0.03	0.0	110.0	38.27	-31.55	-0.93	0.0	-102.39	-1910.43
76	52	0.0	102.39	-0.78	-28.36	0.0	-2.23	-3.19	0.93	0.0	0.0	0.0
		-1910.43	0.0	0.03	0.0	110.0	38.27	-31.55	0.93	0.0	102.39	-1910.43
78	1	32.04	0.0	0.42	-28.36	0.0	-43.37	24.25	23.77	0.0	-2614.15	-1108.36
		-1108.36	-2614.15	-0.03	0.0	110.0	-2.87	-4.10	23.77	0.0	0.0	0.0
78	3	32.04	2614.15	0.42	-28.36	0.0	-43.37	24.25	-23.77	0.0	2614.15	-1108.36
		-1108.36	0.0	0.11	0.0	110.0	-2.87	-4.10	-23.77	0.0	0.0	0.0
78	25	829.86	0.0	1.96	-28.36	0.0	-54.99	7.66	7.13	0.0	-784.24	716.56
		0.0	-784.24	0.03	0.0	110.0	-14.49	-20.69	7.13	0.0	0.0	0.0
78	28	0.0	784.24	-2.01	-28.36	0.0	-26.01	49.05	-7.13	0.0	784.24	-3835.89
		-3835.89	0.0	0.04	0.0	110.0	14.49	20.69	-7.13	0.0	0.0	0.0
78	33	4.88	0.0	0.15	-28.36	0.0	-41.62	26.76	8.19	0.0	-900.98	-1384.18
		-1384.18	-900.98	0.01	0.0	110.0	-1.12	-1.60	8.19	0.0	0.0	0.0
78	36	0.0	900.98	-0.20	-28.36	0.0	-39.38	29.95	-8.19	0.0	900.98	-1735.14
		-1735.14	0.0	0.06	0.0	110.0	1.12	1.60	-8.19	0.0	0.0	0.0
78	57	124.27	0.0	0.75	-28.36	0.0	-46.13	20.31	2.46	0.0	-270.29	-674.60
		-674.60	-270.29	0.03	0.0	110.0	-5.63	-8.05	2.46	0.0	0.0	0.0
78	58	0.0	0.0	-0.79	-28.36	0.0	-34.87	36.40	2.46	0.0	-270.29	-2444.73
		-2444.73	-270.29	0.02	0.0	110.0	5.63	8.05	2.46	0.0	0.0	0.0
78	59	124.27	270.29	0.75	-28.36	0.0	-46.13	20.31	-2.46	0.0	270.29	-674.60
		-674.60	0.0	0.05	0.0	110.0	-5.63	-8.05	-2.46	0.0	0.0	0.0
78	60	0.0	270.29	-0.79	-28.36	0.0	-34.87	36.40	-2.46	0.0	270.29	-2444.73
		-2444.73	0.0	0.04	0.0	110.0	5.63	8.05	-2.46	0.0	0.0	0.0
79	5	-505.58	2.830e+04	-0.01	-23.44	0.0	-131.51	106.69	-243.75	-2020.83	2.830e+04	-1.285e+04
		-1.285e+04	-1208.73	0.02	33.47	130.0	-131.51	83.25	-210.27	-2020.83	-1208.73	-505.58
79	8	360.93	1.976e+04	-9.17e-03	-23.44	0.0	131.51	174.52	-157.86	2020.83	1.976e+04	-2.080e+04
		-2.080e+04	1415.30	-6.71e-03	33.47	130.0	131.51	151.08	-124.39	2020.83	1415.30	360.93
79	25	-1821.51	3.434e+04	1.87e-03	-23.44	0.0	-39.45	18.30	-292.20	-6736.09	3.434e+04	-2749.32
		-2749.32	-1474.22	0.02	33.47	130.0	-39.45	-5.13	-258.72	-6736.09	-1474.22	-1893.09
79	26	1822.94	1.451e+04	-0.02	-23.44	0.0	-39.45	264.73	-119.65	6736.09	1.451e+04	-3.107e+04
		-3.107e+04	1127.77	7.87e-03	33.47	130.0	-39.45	241.29	-86.18	6736.09	1127.77	1822.94
79	34	156.23	2.374e+04	-0.01	-23.44	0.0	-45.33	151.15	-200.03	465.12	2.374e+04	-1.797e+04
		-1.797e+04	-84.31	0.01	33.47	130.0	-45.33	127.71	-166.56	465.12	-84.31	156.23
79	35	-300.88	2.432e+04	-6.53e-03	-23.44	0.0	45.33	130.06	-201.57	-465.12	2.432e+04	-1.568e+04
		-1.568e+04	290.88	0.01	33.47	130.0	45.33	106.62	-168.10	-465.12	290.88	-300.88
79	57	-781.94	2.802e+04	-5.97e-03	-23.44	0.0	-13.60	93.01	-236.11	-2619.20	2.802e+04	-1.135e+04
		-1.135e+04	-497.88	0.02	33.47	130.0	-13.60	69.57	-202.64	-2619.20	-497.88	-781.94
79	58	662.97	2.031e+04	-0.01	-23.44	0.0	-13.60	188.83	-169.02	2619.20	2.031e+04	-2.236e+04
		-2.236e+04	513.85	0.01	33.47	130.0	-13.60	165.39	-135.55	2619.20	513.85	662.97
80	1	-948.57	2.836e+04	0.01	-23.44	0.0	240.38	-93.69	183.64	-3295.95	2312.49	-948.57
		-1.465e+04	2312.49	-0.02	33.47	130.0	240.38	-117.12	217.12	-3295.95	2.836e+04	-1.465e+04
80	4	5719.90	1.034e+04	0.05	-23.44	0.0	-240.38	-128.04	133.02	3295.95	-9126.67	5719.90
		-1.245e+04	-9126.67	-0.08	33.47	130.0	-240.38	-151.48	166.49	3295.95	1.034e+04	-1.245e+04
80	7	5645.27	1.610e+04	0.05	-23.44	0.0	-240.38	-64.19	177.73	-4852.88	-9178.93	5645.27
		-4222.42	-9178.93	-0.08	33.47	130.0	-240.38	-87.62	211.20	-4852.88	1.610e+04	-4222.42
80	8	5934.74	1.001e+04	0.06	-23.44	0.0	-240.38	-133.35	129.30	4852.88	-8976.24	5934.74
		-1.292e+04	-8976.24	-0.08	33.47	130.0	-240.38	-156.79	162.77	4852.88	1.001e+04	-1.292e+04
80	25	882.32	3.140e+04	0.01	-23.44	0.0	72.11	0.78	240.49	-1.618e+04	-2043.76	881.91
		-539.67	-2043.76	-0.04	33.47	130.0	72.11	-22.65	273.96	-1.618e+04	3.140e+04	-539.67
80	26	1846.81	1.109e+04	0.03	-23.44	0.0	72.11	-229.77	79.06	1.618e+04	-1368.13	1846.81
		-2.955e+04	-1368.13	-0.03	33.47	130.0	72.11	-253.21	112.53	1.618e+04	1.109e+04	-2.955e+04
80	33	1239.60	2.258e+04	0.02	-23.44	0.0	82.85	-103.65	167.96	-1281.56	-1433.65	1239.60
		-1.376e+04	-1433.65	-0.03	33.47	130.0	82.85	-127.09	201.43	-1281.56	2.258e+04	-1.376e+04
80	36	3531.72	1.613e+04	0.04	-23.44	0.0	-82.85	-118.08	148.70	1281.56	-5380.53	3531.72
		-1.334e+04	-5380.53	-0.06	33.47	130.0	-82.85	-141.51	182.17	1281.56	1.613e+04	-1.334e+04
80	39	3502.70	1.837e+04	0.04	-23.44	0.0	-82.85	-93.25	166.09	-1886.95	-5400.85	3502.70
		-1.014e+04	-5400.85	-0.06	33.47	130.0	-82.85	-116.69	199.56	-1886.95	1.837e+04	-1.014e+04
80	40	3615.26	1.600e+04	0.04	-23.44	0.0	-82.85	-120.14	147.26	1886.95	-5322.04	3615.26
		-1.353e+04	-5322.04	-0.06	33.47	130.0	-82.85	-143.58	180.73	1886.95	1.600e+04	-1.353e+04
80	57	1846.08	2.395e+04	0.02	-23.44	0.0	24.85	-67.29	190.21	-6289.82	-2952.14	1846.08
		-8425.30	-2952.14	-0.04	33.47	130.0	24.85	-90.73	223.69	-6289.82	2.395e+04	-8425.30
80	58	2221.26	1.605e+04	0.03	-23.44	0.0	24.85	-156.94	127.44	6289.82	-2689.43	2221.26
		-1.970e+04	-2689.43	-0.04	33.47	130.0	24.85	-180.37	160.92	6289.82	1.605e+04	-1.970e+04
81	6	0.0	0.0	-0.26	-28.36	0.0	-1.27	-1.81	-9.00	0.0	0.0	0.0
		-1758.53	-990.25	0.08	0.0	110.0	39.23	-30.17	-9.00	0.0	-990.25	-1758.53
81	7	6.34	990.25	0.30	-28.36	0.0	1.27	1.81	9.00	0.0	0.0	0.0
		-1360.80	0.0	-0.08	0.0	110.0	41.76	-26.55	9.00	0.0	990.25	-1360.80
81	17	94.82	0.0	1.15	-28.36	0.0	4.90	6.99	-2.70	0.0	0.0	0.0
		-790.46	-297.07	9.92e-03	0.0	110.0	45.40	-21.36	-2.70	0.0	-297.07	-790.46
81	18	0.0	0.0	-1.11	-28.36	0.0	-4.90	-6.99	-2.70	0.0	0.0	0.0
		-2328.87	-297.07	0.04	0.0	110.0	35.60	-35.35	-2.70	0.0	-297.07	-2328.87
81	20	0.0	297.07	-1.11	-28.36	0.0	-4.90	-6.99	2.70	0.0	0.0	0.0
		-2328.87	0.0	-5.40e-03	0.0	110.0	35.60	-35.35	2.70	0.0	297.07	-2328.87
81	34	0.0	0.0	-0.11	-28.36	0.0	-0.57	-0.82	-3.10	0.0	0.0	0.0

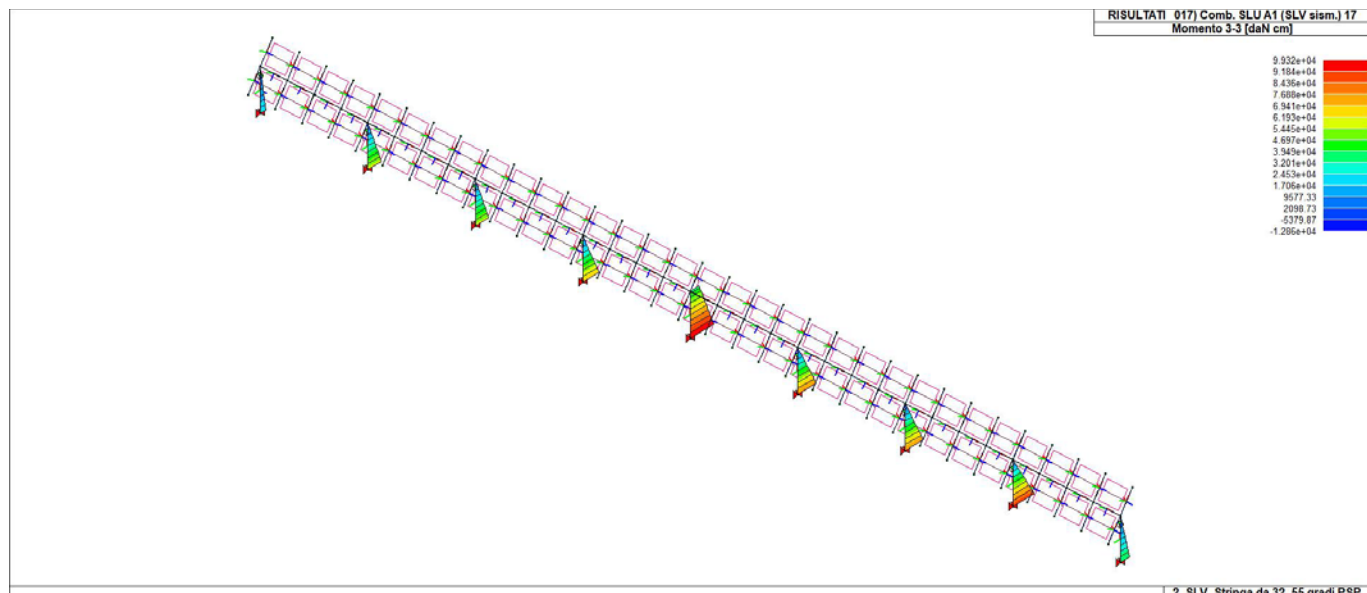
81	35	-1649.39	-341.29	0.03	0.0	110.0	39.93	-29.17	-3.10	0.0	-341.29	-1649.39
		0.0	341.29	0.15	-28.36	0.0	0.57	0.82	3.10	0.0	0.0	0.0
		-1469.94	0.0	-0.03	0.0	110.0	41.07	-27.54	3.10	0.0	341.29	-1469.94
81	49	13.02	0.0	0.46	-28.36	0.0	1.90	2.72	-0.93	0.0	0.0	0.0
		-1260.57	-102.39	4.28e-03	0.0	110.0	42.40	-25.64	-0.93	0.0	-102.39	-1260.57
81	50	0.0	0.0	-0.42	-28.36	0.0	-1.90	-2.72	-0.93	0.0	0.0	0.0
		-1858.75	-102.39	0.02	0.0	110.0	38.60	-31.08	-0.93	0.0	-102.39	-1858.75
82	1	4.84	0.0	0.44	-28.36	0.0	1.11	1.59	-9.00	0.0	0.0	0.0
		-1384.72	-990.25	0.03	0.0	110.0	41.61	-26.77	-9.00	0.0	-990.25	-1384.72
82	3	4.84	990.25	0.44	-28.36	0.0	1.11	1.59	9.00	0.0	0.0	0.0
		-1384.72	0.0	-0.02	0.0	110.0	41.61	-26.77	9.00	0.0	990.25	-1384.72
82	25	114.76	0.0	1.87	-28.36	0.0	5.40	7.72	-2.70	0.0	0.0	0.0
		-710.72	-297.07	9.47e-03	0.0	110.0	45.90	-20.64	-2.70	0.0	-297.07	-710.72
82	26	0.0	0.0	-1.83	-28.36	0.0	-5.40	-7.72	-2.70	0.0	0.0	0.0
		-2408.61	-297.07	0.02	0.0	110.0	35.10	-36.08	-2.70	0.0	-297.07	-2408.61
82	27	114.76	297.07	1.87	-28.36	0.0	5.40	7.72	2.70	0.0	0.0	0.0
		-710.72	0.0	-7.63e-03	0.0	110.0	45.90	-20.64	2.70	0.0	297.07	-710.72
82	28	0.0	297.07	-1.83	-28.36	0.0	-5.40	-7.72	2.70	0.0	0.0	0.0
		-2408.61	0.0	3.40e-03	0.0	110.0	35.10	-36.08	2.70	0.0	297.07	-2408.61
82	33	0.0	0.0	0.19	-28.36	0.0	0.43	0.62	-3.10	0.0	0.0	0.0
		-1491.64	-341.29	0.02	0.0	110.0	40.93	-27.74	-3.10	0.0	-341.29	-1491.64
82	35	0.0	341.29	0.19	-28.36	0.0	0.43	0.62	3.10	0.0	0.0	0.0
		-1491.64	0.0	-4.09e-03	0.0	110.0	40.93	-27.74	3.10	0.0	341.29	-1491.64
82	57	16.89	0.0	0.74	-28.36	0.0	2.10	3.00	-0.93	0.0	0.0	0.0
		-1229.57	-102.39	7.24e-03	0.0	110.0	42.60	-25.36	-0.93	0.0	-102.39	-1229.57
82	58	0.0	0.0	-0.70	-28.36	0.0	-2.10	-3.00	-0.93	0.0	0.0	0.0
		-1889.76	-102.39	0.01	0.0	110.0	38.40	-31.36	-0.93	0.0	-102.39	-1889.76
82	59	16.89	102.39	0.74	-28.36	0.0	2.10	3.00	0.93	0.0	0.0	0.0
		-1229.57	0.0	1.34e-03	0.0	110.0	42.60	-25.36	0.93	0.0	102.39	-1229.57
82	60	0.0	102.39	-0.70	-28.36	0.0	-2.10	-3.00	0.93	0.0	0.0	0.0
		-1889.76	0.0	5.63e-03	0.0	110.0	38.40	-31.36	0.93	0.0	102.39	-1889.76
83	1	47.55	0.0	0.20	-28.36	0.0	-43.97	23.39	23.77	0.0	-2614.15	-1013.63
		-1013.63	-2614.15	-0.03	0.0	110.0	-3.48	-4.96	23.77	0.0	0.0	0.0
83	4	0.0	2614.15	-0.24	-28.36	0.0	-37.02	33.32	-23.77	0.0	2614.15	-2105.70
		-2105.70	0.0	0.03	0.0	110.0	3.48	4.96	-23.77	0.0	0.0	0.0
83	25	616.04	0.0	0.83	-28.36	0.0	-52.98	10.54	7.13	0.0	-784.24	400.79
		0.0	-784.24	0.01	0.0	110.0	-12.48	-17.82	7.13	0.0	0.0	0.0
83	28	0.0	784.24	-0.87	-28.36	0.0	-28.02	46.18	-7.13	0.0	784.24	-3520.12
		-3520.12	0.0	-0.01	0.0	110.0	12.48	17.82	-7.13	0.0	0.0	0.0
83	33	7.18	0.0	0.06	-28.36	0.0	-41.85	26.43	8.19	0.0	-900.98	-1347.35
		-1347.35	-900.98	-9.31e-03	0.0	110.0	-1.35	-1.93	8.19	0.0	0.0	0.0
83	36	0.0	900.98	-0.11	-28.36	0.0	-39.15	30.29	-8.19	0.0	900.98	-1771.98
		-1771.98	0.0	0.01	0.0	110.0	1.35	1.93	-8.19	0.0	0.0	0.0
83	57	93.09	0.0	0.31	-28.36	0.0	-45.35	21.43	2.46	0.0	-270.29	-797.38
		-797.38	-270.29	5.93e-03	0.0	110.0	-4.85	-6.93	2.46	0.0	0.0	0.0
83	60	0.0	270.29	-0.35	-28.36	0.0	-35.65	35.29	-2.46	0.0	270.29	-2321.95
		-2321.95	0.0	-4.77e-03	0.0	110.0	4.85	6.93	-2.46	0.0	0.0	0.0
84	1	73.24	0.0	0.57	-28.36	0.0	-44.85	22.15	23.77	0.0	-2614.15	-876.80
		-876.80	-2614.15	-0.11	0.0	110.0	-4.35	-6.21	23.77	0.0	0.0	0.0
84	3	73.24	2614.15	0.57	-28.36	0.0	-44.85	22.15	-23.77	0.0	2614.15	-876.80
		-876.80	0.0	0.03	0.0	110.0	-4.35	-6.21	-23.77	0.0	0.0	0.0
84	17	829.86	0.0	1.96	-28.36	0.0	-54.99	7.66	7.13	0.0	-784.24	716.56
		0.0	-784.24	-0.07	0.0	110.0	-14.49	-20.69	7.13	0.0	0.0	0.0
84	18	0.0	0.0	-2.01	-28.36	0.0	-26.01	49.05	7.13	0.0	-784.24	-3835.89
		-3835.89	-784.24	-0.04	0.0	110.0	14.49	20.69	7.13	0.0	0.0	0.0
84	19	829.86	784.24	1.96	-28.36	0.0	-54.99	7.66	-7.13	0.0	784.24	716.56
		0.0	0.0	-0.03	0.0	110.0	-14.49	-20.69	-7.13	0.0	0.0	0.0
84	20	0.0	784.24	-2.01	-28.36	0.0	-26.01	49.05	-7.13	0.0	784.24	-3835.89
		-3835.89	0.0	-4.58e-03	0.0	110.0	14.49	20.69	-7.13	0.0	0.0	0.0
84	33	10.50	0.0	0.21	-28.36	0.0	-42.19	25.94	8.19	0.0	-900.98	-1294.15
		-1294.15	-900.98	-0.06	0.0	110.0	-1.69	-2.41	8.19	0.0	0.0	0.0
84	35	10.50	900.98	0.21	-28.36	0.0	-42.19	25.94	-8.19	0.0	900.98	-1294.15
		-1294.15	0.0	-0.01	0.0	110.0	-1.69	-2.41	-8.19	0.0	0.0	0.0
84	49	124.27	0.0	0.75	-28.36	0.0	-46.13	20.31	2.46	0.0	-270.29	-674.60
		-674.60	-270.29	-0.05	0.0	110.0	-5.63	-8.05	2.46	0.0	0.0	0.0
84	50	0.0	0.0	-0.79	-28.36	0.0	-34.87	36.40	2.46	0.0	-270.29	-2444.73
		-2444.73	-270.29	-0.04	0.0	110.0	5.63	8.05	2.46	0.0	0.0	0.0
84	51	124.27	270.29	0.75	-28.36	0.0	-46.13	20.31	-2.46	0.0	270.29	-674.60
		-674.60	0.0	-0.03	0.0	110.0	-5.63	-8.05	-2.46	0.0	0.0	0.0
85	1	3519.21	-1560.63	-4.43e-03	-23.44	0.0	-53.72	35.22	-86.34	2862.68	-1560.63	463.85
		463.85	-1.061e+04	0.02	33.47	130.0	-53.72	11.78	-52.87	2862.68	-1.061e+04	3519.21
85	2	7966.10	-442.89	-0.02	-23.44	0.0	-53.72	57.15	-70.99	-2862.68	-442.89	2060.16
		2060.16	-7495.92	0.01	33.47	130.0	-53.72	33.71	-37.52	-2862.68	-7495.92	7966.10
85	4	9006.79	-4661.97	-0.02	-23.44	0.0	53.72	51.05	-36.87	-2862.68	-4661.97	3893.25
		3893.25	-7279.37	0.01	33.47	130.0	53.72	27.62	-3.40	-2862.68	-7279.37	9006.79
85	17	-600.78	-4341.35	0.02	-23.44	0.0	-16.12	7.51	-92.31	9542.26	-4341.35	-756.93
		-1304.58	-1.417e+04	0.04	33.47	130.0	-16.12	-15.93	-58.84	9542.26	-1.417e+04	-1304.58

85	20	1.383e+04	-1881.25	-0.04	-23.44	0.0	16.12	78.77	-30.90	-9542.26	-1881.25	5114.03
		5114.03	-3734.87	-2.28e-03	33.47	130.0	16.12	55.33	2.57	-9542.26	-3722.47	1.383e+04
85	33	5219.12	-2601.54	-9.87e-03	-23.44	0.0	-18.51	39.92	-70.47	1113.10	-2601.54	1552.31
		1552.31	-9587.19	0.02	33.47	130.0	-18.51	16.49	-37.00	1113.10	-9587.19	5219.12
85	34	6948.20	-2166.93	-0.02	-23.44	0.0	-18.51	48.45	-64.50	-1113.10	-2166.93	2173.01
		2173.01	-8376.47	0.02	33.47	130.0	-18.51	25.01	-31.03	-1113.10	-8376.47	6948.20
85	36	7306.88	-3621.05	-0.02	-23.44	0.0	18.51	46.35	-52.74	-1113.10	-3621.05	2804.79
		2804.79	-8301.84	0.02	33.47	130.0	18.51	22.91	-19.27	-1113.10	-8301.84	7306.88
85	49	3327.39	-3617.54	-3.00e-03	-23.44	0.0	-5.55	29.24	-73.32	3710.32	-3617.54	1049.29
		1049.29	-1.097e+04	0.03	33.47	130.0	-5.55	5.81	-39.85	3710.32	-1.097e+04	3327.39
85	52	9198.61	-2605.06	-0.02	-23.44	0.0	5.55	57.03	-49.89	-3710.32	-2605.06	3307.80
		3307.80	-6915.46	0.01	33.47	130.0	5.55	33.60	-16.42	-3710.32	-6915.46	9198.61
86	1	6.59	0.0	0.27	-28.36	0.0	1.29	1.84	-9.00	0.0	0.0	0.0
		-1356.81	-990.25	0.15	0.0	110.0	41.79	-26.51	-9.00	0.0	-990.25	-1356.81
86	4	0.0	990.25	-0.22	-28.36	0.0	-1.29	-1.84	9.00	0.0	0.0	0.0
		-1762.52	0.0	-0.06	0.0	110.0	39.21	-30.20	9.00	0.0	990.25	-1762.52
86	25	91.50	0.0	0.99	-28.36	0.0	4.81	6.87	-2.70	0.0	0.0	0.0
		-803.75	-297.07	0.12	0.0	110.0	45.31	-21.49	-2.70	0.0	-297.07	-803.75
86	26	0.0	0.0	-0.95	-28.36	0.0	-4.81	-6.87	-2.70	0.0	0.0	0.0
		-2315.58	-297.07	0.03	0.0	110.0	35.69	-35.23	-2.70	0.0	-297.07	-2315.58
86	27	91.50	297.07	0.99	-28.36	0.0	4.81	6.87	2.70	0.0	0.0	0.0
		-803.75	0.0	0.06	0.0	110.0	45.31	-21.49	2.70	0.0	297.07	-803.75
86	37	0.0	0.0	0.14	-28.36	0.0	0.56	0.80	-3.10	0.0	0.0	0.0
		-1471.49	-341.29	0.08	0.0	110.0	41.06	-27.56	-3.10	0.0	-341.29	-1471.49
86	40	0.0	341.29	-0.09	-28.36	0.0	-0.56	-0.80	3.10	0.0	0.0	0.0
		-1647.84	0.0	7.29e-03	0.0	110.0	39.94	-29.16	3.10	0.0	341.29	-1647.84
86	57	12.37	0.0	0.40	-28.36	0.0	1.87	2.67	-0.93	0.0	0.0	0.0
		-1265.74	-102.39	0.07	0.0	110.0	42.37	-25.69	-0.93	0.0	-102.39	-1265.74
86	59	12.37	102.39	0.40	-28.36	0.0	1.87	2.67	0.93	0.0	0.0	0.0
		-1265.74	0.0	0.05	0.0	110.0	42.37	-25.69	0.93	0.0	102.39	-1265.74
86	60	0.0	102.39	-0.36	-28.36	0.0	-1.87	-2.67	0.93	0.0	0.0	0.0
		-1853.59	0.0	0.02	0.0	110.0	38.63	-31.03	0.93	0.0	102.39	-1853.59
87	1	33.36	0.0	0.41	-28.36	0.0	-43.44	24.16	23.77	0.0	-2614.15	-1097.84
		-1097.84	-2614.15	-0.06	0.0	110.0	-2.94	-4.20	23.77	0.0	0.0	0.0
87	3	33.36	2614.15	0.41	-28.36	0.0	-43.44	24.16	-23.77	0.0	2614.15	-1097.84
		-1097.84	0.0	0.08	0.0	110.0	-2.94	-4.20	-23.77	0.0	0.0	0.0
87	25	803.60	0.0	1.89	-28.36	0.0	-54.77	7.98	7.13	0.0	-784.24	681.47
		0.0	-784.24	-0.02	0.0	110.0	-14.27	-20.37	7.13	0.0	0.0	0.0
87	28	0.0	784.24	-1.93	-28.36	0.0	-26.23	48.73	-7.13	0.0	784.24	-3800.80
		-3800.80	0.0	0.03	0.0	110.0	14.27	20.37	-7.13	0.0	0.0	0.0
87	33	5.13	0.0	0.15	-28.36	0.0	-41.64	26.73	8.19	0.0	-900.98	-1380.09
		-1380.09	-900.98	-0.02	0.0	110.0	-1.14	-1.63	8.19	0.0	0.0	0.0
87	35	5.13	900.98	0.15	-28.36	0.0	-41.64	26.73	-8.19	0.0	900.98	-1380.09
		-1380.09	0.0	0.03	0.0	110.0	-1.14	-1.63	-8.19	0.0	0.0	0.0
87	57	120.38	0.0	0.72	-28.36	0.0	-46.05	20.44	2.46	0.0	-270.29	-688.24
		-688.24	-270.29	-2.91e-03	0.0	110.0	-5.55	-7.92	2.46	0.0	0.0	0.0
87	60	0.0	270.29	-0.76	-28.36	0.0	-34.95	36.28	-2.46	0.0	270.29	-2431.09
		-2431.09	0.0	0.02	0.0	110.0	5.55	7.92	-2.46	0.0	0.0	0.0
88	2	8351.89	1140.00	-0.03	-23.44	0.0	-38.90	71.89	-97.52	1476.56	1140.00	529.58
		529.58	-9361.84	0.03	33.47	130.0	-38.90	48.45	-64.05	1476.56	-9361.84	8351.89
88	3	4174.11	-933.43	-0.01	-23.44	0.0	38.90	49.01	-75.15	-1476.56	-933.43	-674.22
		-674.22	-8527.19	0.03	33.47	130.0	38.90	25.58	-41.68	-1476.56	-8527.19	4174.11
88	25	-929.18	-987.05	-0.01	-23.44	0.0	-11.67	18.65	-121.36	-8150.07	-987.05	-1893.09
		-1893.09	-1.459e+04	0.04	33.47	130.0	-11.67	-4.79	-87.89	-8150.07	-1.459e+04	-992.38
88	26	1.383e+04	1614.94	-0.03	-23.44	0.0	-11.67	104.08	-61.54	8150.07	1614.94	1822.94
		1822.94	-4209.64	0.02	33.47	130.0	-11.67	80.65	-28.07	8150.07	-4209.64	1.383e+04
88	27	-1184.48	-1408.36	-9.52e-03	-23.44	0.0	11.67	16.82	-111.13	-8150.07	-1408.36	-1967.58
		-1967.58	-1.368e+04	0.04	33.47	130.0	11.67	-6.62	-77.66	-8150.07	-1.368e+04	-1304.58
88	34	7052.23	475.37	-0.02	-23.44	0.0	-13.41	64.76	-89.93	574.13	475.37	156.23
		156.23	-9039.83	0.03	33.47	130.0	-13.41	41.33	-56.46	574.13	-9039.83	7052.23
88	35	5473.76	-268.80	-0.02	-23.44	0.0	13.41	56.14	-82.74	-574.13	-268.80	-300.87
		-300.87	-8849.20	0.03	33.47	130.0	13.41	32.70	-49.27	-574.13	-8849.20	5473.76
88	57	3434.99	-329.98	-0.02	-23.44	0.0	-4.02	44.16	-99.73	-3168.99	-329.98	-781.94
		-781.94	-1.112e+04	0.03	33.47	130.0	-4.02	20.72	-66.26	-3168.99	-1.112e+04	3434.99
88	58	9198.61	681.75	-0.03	-23.44	0.0	-4.02	77.38	-76.47	3168.99	681.75	662.97
		662.97	-7083.37	0.03	33.47	130.0	-4.02	53.94	-43.00	3168.99	-7083.37	9198.61
88	59	3327.39	-475.18	-0.02	-23.44	0.0	4.02	43.53	-96.20	-3168.99	-475.18	-807.61
		-807.61	-1.081e+04	0.03	33.47	130.0	4.02	20.09	-62.73	-3168.99	-1.081e+04	3327.39
89	6	0.0	0.0	-0.51	-28.36	0.0	-1.60	-2.28	-9.00	0.0	0.0	0.0
		-1810.36	-990.25	4.24e-03	0.0	110.0	38.90	-30.64	-9.00	0.0	-990.25	-1810.36
89	7	9.58	990.25	0.55	-28.36	0.0	1.60	2.28	9.00	0.0	0.0	0.0
		-1308.97	0.0	-0.06	0.0	110.0	42.09	-26.08	9.00	0.0	990.25	-1308.97
89	26	0.0	0.0	-1.74	-28.36	0.0	-5.32	-7.60	-2.70	0.0	0.0	0.0
		-2395.32	-297.07	2.41e-03	0.0	110.0	35.18	-35.95	-2.70	0.0	-297.07	-2395.32
89	27	111.44	297.07	1.79	-28.36	0.0	5.32	7.60	2.70	0.0	0.0	0.0
		-724.01	0.0	-0.07	0.0	110.0	45.82	-20.76	2.70	0.0	297.07	-724.01
89	34	0.0	0.0	-0.14	-28.36	0.0	-0.44	-0.63	-3.10	0.0	0.0	0.0

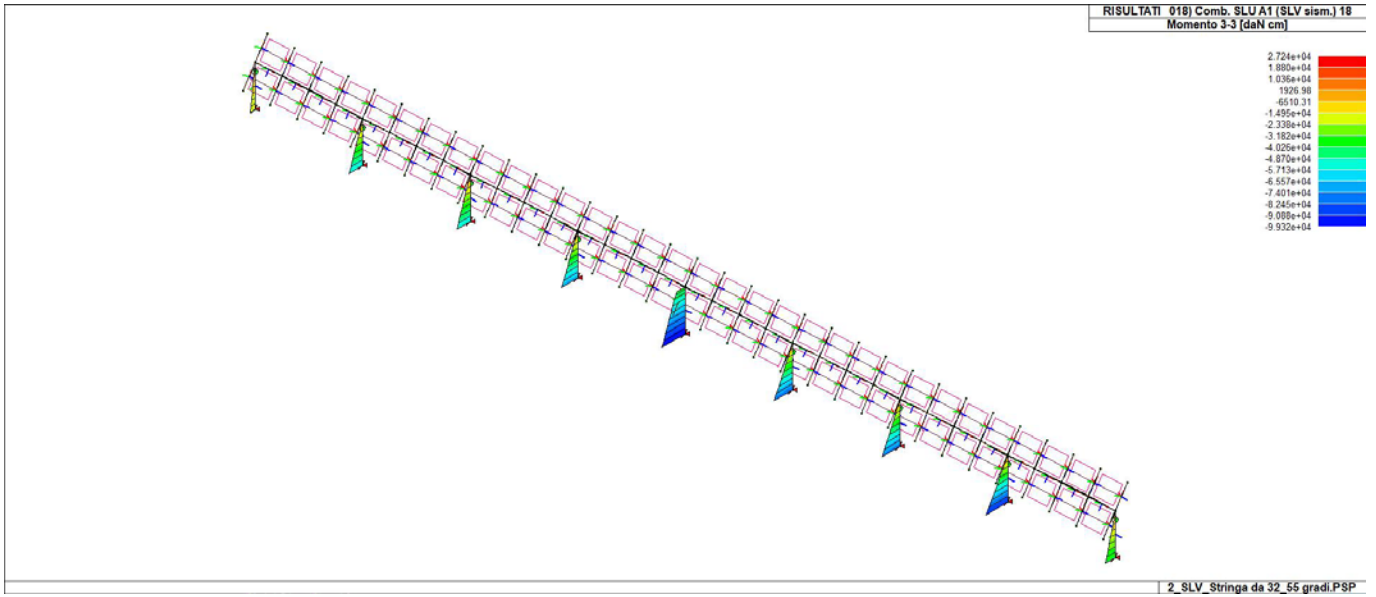
		-2413.18	-1.304e+04	0.05	33.47	130.0	-44.85	-35.19	-53.96	-1.868e+04	-1.304e+04	-2413.18
97	33	8981.15	-3396.35	-0.03	-23.44	0.0	51.53	62.79	-105.51	-1537.72	-3396.35	2342.20
		2342.20	-1.494e+04	0.06	33.47	130.0	51.53	39.35	-72.04	-1537.72	-1.494e+04	8981.15
97	36	6004.66	-2834.08	-0.01	-23.44	0.0	-51.53	42.37	-44.67	1537.72	-2834.08	2020.38
		2020.38	-6464.93	6.55e-03	33.47	130.0	-51.53	18.93	-11.19	1537.72	-6464.93	6004.66
97	37	8924.35	-3390.82	-0.03	-23.44	0.0	51.53	62.29	-105.86	-2178.69	-3390.82	2350.09
		2350.09	-1.498e+04	0.06	33.47	130.0	51.53	38.85	-72.39	-2178.69	-1.498e+04	8924.35
97	51	3920.78	-3426.99	8.54e-03	-23.44	0.0	-15.46	29.82	-79.75	-5125.72	-3426.99	1567.30
		1567.30	-1.162e+04	0.04	33.47	130.0	-15.46	6.39	-46.28	-5125.72	-1.162e+04	3920.78
97	52	9655.93	-2700.17	-0.04	-23.44	0.0	-15.46	65.95	-54.45	5125.72	-2700.17	2605.31
		2605.31	-7603.01	8.99e-03	33.47	130.0	-15.46	42.52	-20.98	5125.72	-7603.01	9655.93
97	58	1.125e+04	-2821.85	-0.05	-23.44	0.0	15.46	76.99	-69.26	7262.30	-2821.85	2768.98
		2768.98	-9650.65	0.02	33.47	130.0	15.46	53.55	-35.79	7262.30	-9650.65	1.125e+04
98	1	8298.10	-2.004e+04	-6.39e-03	-23.44	0.0	132.92	7.79	-14.47	709.01	-2.033e+04	8130.48
		7619.53	-2.074e+04	-0.05	33.47	130.0	132.92	-15.65	19.00	709.01	-2.004e+04	7619.53
98	3	8074.14	-1.801e+04	-5.89e-03	-23.44	0.0	-132.92	8.83	9.06	709.01	-2.137e+04	7857.92
		7482.39	-2.137e+04	-0.05	33.47	130.0	-132.92	-14.61	42.54	709.01	-1.801e+04	7482.39
98	18	2.724e+04	-7247.55	0.10	-23.44	0.0	39.88	-10.51	-19.30	-2363.37	-7247.55	2.724e+04
		2.435e+04	-7970.24	0.02	33.47	130.0	39.88	-33.94	14.17	-2363.37	-7580.49	2.435e+04
98	19	-1437.44	-2.505e+04	-0.05	-23.44	0.0	-39.88	18.51	7.86	2363.37	-2.824e+04	-2387.18
		-2387.18	-2.824e+04	-0.09	33.47	130.0	-39.88	-4.92	41.33	2363.37	-2.505e+04	-1503.91
98	20	2.716e+04	-6972.60	0.10	-23.44	0.0	-39.88	-10.19	-12.24	-2363.37	-7557.36	2.716e+04
		2.431e+04	-7847.99	0.02	33.47	130.0	-39.88	-33.63	21.23	-2363.37	-6972.60	2.431e+04
98	37	1.155e+04	-1.726e+04	0.02	-23.44	0.0	45.81	4.79	-9.10	153.35	-1.826e+04	1.149e+04
		1.059e+04	-1.842e+04	-0.04	33.47	130.0	45.81	-18.65	24.38	153.35	-1.726e+04	1.059e+04
98	40	1.339e+04	-1.536e+04	0.03	-23.44	0.0	-45.81	3.22	-2.34	-153.35	-1.724e+04	1.336e+04
		1.226e+04	-1.725e+04	-0.03	33.47	130.0	-45.81	-20.22	31.13	-153.35	-1.536e+04	1.226e+04
98	50	1.818e+04	-1.290e+04	0.05	-23.44	0.0	13.74	-1.63	-10.84	-918.95	-1.367e+04	1.818e+04
		1.645e+04	-1.390e+04	-0.01	33.47	130.0	13.74	-25.07	22.63	-918.95	-1.290e+04	1.645e+04
98	51	6924.46	-1.972e+04	-8.39e-03	-23.44	0.0	-13.74	9.64	-0.59	918.95	-2.182e+04	6667.90
		6397.42	-2.182e+04	-0.05	33.47	130.0	-13.74	-13.80	32.88	918.95	-1.972e+04	6397.42
98	52	1.816e+04	-1.269e+04	0.05	-23.44	0.0	-13.74	-1.52	-8.41	-918.95	-1.378e+04	1.816e+04
		1.643e+04	-1.391e+04	-0.01	33.47	130.0	-13.74	-24.96	25.06	-918.95	-1.269e+04	1.643e+04
99	1	5.34	0.0	0.41	-28.36	0.0	1.16	1.66	-9.00	0.0	0.0	0.0
		-1376.75	-990.25	0.02	0.0	110.0	41.66	-26.69	-9.00	0.0	-990.25	-1376.75
99	3	5.34	990.25	0.41	-28.36	0.0	1.16	1.66	9.00	0.0	0.0	0.0
		-1376.75	0.0	-7.22e-03	0.0	110.0	41.66	-26.69	9.00	0.0	990.25	-1376.75
99	25	108.11	0.0	1.68	-28.36	0.0	5.23	7.48	-2.70	0.0	0.0	0.0
		-737.30	-297.07	6.73e-03	0.0	110.0	45.73	-20.88	-2.70	0.0	-297.07	-737.30
99	26	0.0	0.0	-1.64	-28.36	0.0	-5.23	-7.48	-2.70	0.0	0.0	0.0
		-2382.03	-297.07	0.02	0.0	110.0	35.26	-35.83	-2.70	0.0	-297.07	-2382.03
99	33	0.0	0.0	0.17	-28.36	0.0	0.45	0.65	-3.10	0.0	0.0	0.0
		-1488.54	-341.29	0.01	0.0	110.0	40.95	-27.71	-3.10	0.0	-341.29	-1488.54
99	35	0.0	341.29	0.17	-28.36	0.0	0.45	0.65	3.10	0.0	0.0	0.0
		-1488.54	0.0	5.02e-03	0.0	110.0	40.95	-27.71	3.10	0.0	341.29	-1488.54
99	57	15.60	0.0	0.67	-28.36	0.0	2.04	2.91	-0.93	0.0	0.0	0.0
		-1239.90	-102.39	8.18e-03	0.0	110.0	42.53	-25.45	-0.93	0.0	-102.39	-1239.90
99	58	0.0	0.0	-0.62	-28.36	0.0	-2.04	-2.91	-0.93	0.0	0.0	0.0
		-1879.43	-102.39	0.01	0.0	110.0	38.46	-31.26	-0.93	0.0	-102.39	-1879.43
99	60	0.0	102.39	-0.62	-28.36	0.0	-2.04	-2.91	0.93	0.0	0.0	0.0
		-1879.43	0.0	0.01	0.0	110.0	38.46	-31.26	0.93	0.0	102.39	-1879.43
100	2	0.0	0.0	-0.62	-16.05	0.0	-1.00	-1.43	-5.10	0.0	0.0	0.0
		-1040.72	-560.62	-0.09	0.0	110.0	21.92	-17.49	-5.10	0.0	-560.62	-1040.72
100	3	6.41	560.62	0.65	-16.05	0.0	1.00	1.43	5.10	0.0	0.0	0.0
		-725.26	0.0	-0.17	0.0	110.0	23.93	-14.62	5.10	0.0	560.62	-725.26
100	17	78.08	0.0	2.12	-16.05	0.0	3.35	4.78	-1.53	0.0	0.0	0.0
		-357.22	-168.19	-0.23	0.0	110.0	26.28	-11.27	-1.53	0.0	-168.19	-357.22
100	18	0.0	0.0	-2.10	-16.05	0.0	-3.35	-4.78	-1.53	0.0	0.0	0.0
		-1408.76	-168.19	-0.03	0.0	110.0	19.58	-20.83	-1.53	0.0	-168.19	-1408.76
100	19	78.08	168.19	2.12	-16.05	0.0	3.35	4.78	1.53	0.0	0.0	0.0
		-357.22	0.0	-0.23	0.0	110.0	26.28	-11.27	1.53	0.0	168.19	-357.22
100	20	0.0	168.19	-2.10	-16.05	0.0	-3.35	-4.78	1.53	0.0	0.0	0.0
		-1408.76	0.0	-0.04	0.0	110.0	19.58	-20.83	1.53	0.0	168.19	-1408.76
100	38	0.0	0.0	-0.17	-16.05	0.0	-0.21	-0.30	-1.76	0.0	0.0	0.0
		-916.24	-193.22	-0.12	0.0	110.0	22.72	-16.36	-1.76	0.0	-193.22	-916.24
100	39	0.0	193.22	0.19	-16.05	0.0	0.21	0.30	1.76	0.0	0.0	0.0
		-849.75	0.0	-0.14	0.0	110.0	23.14	-15.75	1.76	0.0	193.22	-849.75
100	49	11.76	0.0	0.83	-16.05	0.0	1.30	1.86	-0.53	0.0	0.0	0.0
		-678.56	-57.97	-0.17	0.0	110.0	24.23	-14.20	-0.53	0.0	-57.97	-678.56
100	50	0.0	0.0	-0.81	-16.05	0.0	-1.30	-1.86	-0.53	0.0	0.0	0.0
		-1087.43	-57.97	-0.09	0.0	110.0	21.63	-17.91	-0.53	0.0	-57.97	-1087.43
100	51	11.76	57.97	0.83	-16.05	0.0	1.30	1.86	0.53	0.0	0.0	0.0
		-678.56	0.0	-0.17	0.0	110.0	24.23	-14.20	0.53	0.0	57.97	-678.56
101	1	7.08	0.0	0.19	-28.36	0.0	1.34	1.92	-9.00	0.0	0.0	0.0
		-1348.84	-990.25	-0.07	0.0	110.0	41.84	-26.44	-9.00	0.0	-990.25	-1348.84
101	3	7.08	990.25	0.19	-28.36	0.0	1.34	1.92	9.00	0.0	0.0	0.0
		-1348.84	0.0	-0.02	0.0	110.0	41.84	-26.44	9.00	0.0	990.25	-1348.84

101	26	0.0	0.0	-0.59	-28.36	0.0	-4.64	-6.63	-2.70	0.0	0.0	0.0
		-2289.00	-297.07	-0.05	0.0	110.0	35.86	-34.99	-2.70	0.0	-297.07	-2289.00
101	27	84.86	297.07	0.63	-28.36	0.0	4.64	6.63	2.70	0.0	0.0	0.0
		-830.33	0.0	-0.04	0.0	110.0	45.14	-21.73	2.70	0.0	297.07	-830.33
101	28	0.0	297.07	-0.59	-28.36	0.0	-4.64	-6.63	2.70	0.0	0.0	0.0
		-2289.00	0.0	-0.03	0.0	110.0	35.86	-34.99	2.70	0.0	297.07	-2289.00
101	33	0.0	0.0	0.09	-28.36	0.0	0.52	0.75	-3.10	0.0	0.0	0.0
		-1477.69	-341.29	-0.05	0.0	110.0	41.02	-27.61	-3.10	0.0	-341.29	-1477.69
101	35	0.0	341.29	0.09	-28.36	0.0	0.52	0.75	3.10	0.0	0.0	0.0
		-1477.69	0.0	-0.04	0.0	110.0	41.02	-27.61	3.10	0.0	341.29	-1477.69
101	57	11.63	0.0	0.26	-28.36	0.0	1.81	2.58	-0.93	0.0	0.0	0.0
		-1276.08	-102.39	-0.05	0.0	110.0	42.30	-25.78	-0.93	0.0	-102.39	-1276.08
101	59	11.63	102.39	0.26	-28.36	0.0	1.81	2.58	0.93	0.0	0.0	0.0
		-1276.08	0.0	-0.04	0.0	110.0	42.30	-25.78	0.93	0.0	102.39	-1276.08
101	60	0.0	102.39	-0.22	-28.36	0.0	-1.81	-2.58	0.93	0.0	0.0	0.0
		-1843.25	0.0	-0.04	0.0	110.0	38.69	-30.94	0.93	0.0	102.39	-1843.25
102	1	69.26	0.0	0.52	-28.36	0.0	-44.71	22.34	23.77	0.0	-2614.15	-897.85
		-897.85	-2614.15	-0.04	0.0	110.0	-4.21	-6.02	23.77	0.0	0.0	0.0
102	4	0.0	2614.15	-0.57	-28.36	0.0	-36.29	34.37	-23.77	0.0	2614.15	-2221.48
		-2221.48	0.0	0.10	0.0	110.0	4.21	6.02	-23.77	0.0	0.0	0.0
102	18	0.0	0.0	-1.84	-28.36	0.0	-26.46	48.41	7.13	0.0	-784.24	-3765.72
		-3765.72	-784.24	-0.02	0.0	110.0	14.04	20.05	7.13	0.0	0.0	0.0
102	19	779.48	784.24	1.80	-28.36	0.0	-54.54	8.30	-7.13	0.0	784.24	646.39
		0.0	0.0	0.08	0.0	110.0	-14.04	-20.06	-7.13	0.0	0.0	0.0
102	33	9.99	0.0	0.19	-28.36	0.0	-42.14	26.02	8.19	0.0	-900.98	-1302.33
		-1302.33	-900.98	9.80e-03	0.0	110.0	-1.64	-2.34	8.19	0.0	0.0	0.0
102	36	0.0	900.98	-0.23	-28.36	0.0	-38.86	30.70	-8.19	0.0	900.98	-1817.00
		-1817.00	0.0	0.06	0.0	110.0	1.64	2.34	-8.19	0.0	0.0	0.0
102	50	0.0	0.0	-0.73	-28.36	0.0	-35.04	36.16	2.46	0.0	-270.29	-2417.44
		-2417.44	-270.29	0.01	0.0	110.0	5.46	7.80	2.46	0.0	0.0	0.0
102	51	116.97	270.29	0.69	-28.36	0.0	-45.96	20.56	-2.46	0.0	270.29	-701.89
		-701.89	0.0	0.05	0.0	110.0	-5.46	-7.80	-2.46	0.0	0.0	0.0
103	1	59.39	0.0	0.33	-28.36	0.0	-44.38	22.82	23.77	0.0	-2614.15	-950.48
		-950.48	-2614.15	-0.02	0.0	110.0	-3.88	-5.54	23.77	0.0	0.0	0.0
103	3	59.39	2614.15	0.33	-28.36	0.0	-44.38	22.82	-23.77	0.0	2614.15	-950.48
		-950.48	0.0	0.02	0.0	110.0	-3.88	-5.54	-23.77	0.0	0.0	0.0
103	17	659.90	0.0	1.16	-28.36	0.0	-53.42	9.90	7.13	0.0	-784.24	470.96
		0.0	-784.24	-0.02	0.0	110.0	-12.93	-18.46	7.13	0.0	0.0	0.0
103	18	0.0	0.0	-1.21	-28.36	0.0	-27.57	46.82	7.13	0.0	-784.24	-3590.29
		-3590.29	-784.24	0.01	0.0	110.0	12.93	18.46	7.13	0.0	0.0	0.0
103	38	0.0	0.0	-0.14	-28.36	0.0	-39.20	30.21	8.19	0.0	-900.98	-1763.79
		-1763.79	-900.98	3.62e-03	0.0	110.0	1.30	1.86	8.19	0.0	0.0	0.0
103	39	6.67	900.98	0.09	-28.36	0.0	-41.80	26.50	-8.19	0.0	900.98	-1355.54
		-1355.54	0.0	7.50e-03	0.0	110.0	-1.30	-1.86	-8.19	0.0	0.0	0.0
103	49	99.91	0.0	0.44	-28.36	0.0	-45.53	21.18	2.46	0.0	-270.29	-770.10
		-770.10	-270.29	-5.86e-03	0.0	110.0	-5.03	-7.18	2.46	0.0	0.0	0.0
103	50	0.0	0.0	-0.48	-28.36	0.0	-35.47	35.54	2.46	0.0	-270.29	-2349.23
		-2349.23	-270.29	5.95e-03	0.0	110.0	5.03	7.18	2.46	0.0	0.0	0.0
105	1	35.99	0.0	0.37	-28.36	0.0	-43.57	23.97	23.77	0.0	-2614.15	-1076.79
		-1076.79	-2614.15	-0.08	0.0	110.0	-3.07	-4.39	23.77	0.0	0.0	0.0
105	3	35.99	2614.15	0.37	-28.36	0.0	-43.57	23.97	-23.77	0.0	2614.15	-1076.79
		-1076.79	0.0	0.09	0.0	110.0	-3.07	-4.39	-23.77	0.0	0.0	0.0
105	25	755.36	0.0	1.70	-28.36	0.0	-54.32	8.62	7.13	0.0	-784.24	611.30
		0.0	-784.24	-0.02	0.0	110.0	-13.82	-19.74	7.13	0.0	0.0	0.0
105	26	0.0	0.0	-1.74	-28.36	0.0	-26.68	48.09	7.13	0.0	-784.24	-3730.63
		-3730.63	-784.24	-9.61e-03	0.0	110.0	13.82	19.74	7.13	0.0	0.0	0.0
105	33	5.64	0.0	0.13	-28.36	0.0	-41.69	26.65	8.19	0.0	-900.98	-1371.91
		-1371.91	-900.98	-0.02	0.0	110.0	-1.20	-1.71	8.19	0.0	0.0	0.0
105	35	5.64	900.98	0.13	-28.36	0.0	-41.69	26.65	-8.19	0.0	900.98	-1371.91
		-1371.91	0.0	0.04	0.0	110.0	-1.20	-1.71	-8.19	0.0	0.0	0.0
105	57	113.56	0.0	0.65	-28.36	0.0	-45.87	20.68	2.46	0.0	-270.29	-715.53
		-715.53	-270.29	-1.96e-03	0.0	110.0	-5.37	-7.67	2.46	0.0	0.0	0.0
105	58	0.0	0.0	-0.69	-28.36	0.0	-35.13	36.03	2.46	0.0	-270.29	-2403.80
		-2403.80	-270.29	3.22e-03	0.0	110.0	5.37	7.67	2.46	0.0	0.0	0.0
106	1	2568.10	1.679e+04	0.02	-23.44	0.0	146.33	-72.02	142.90	-2056.87	-3965.94	2568.10
		-8318.09	-3965.94	-0.04	33.47	130.0	146.33	-95.46	176.37	-2056.87	1.679e+04	-8318.09
106	4	1789.00	1.842e+04	0.02	-23.44	0.0	-146.33	-127.68	142.31	2056.87	-2256.66	1789.00
		-1.633e+04	-2256.66	-0.02	33.47	130.0	-146.33	-151.12	175.78	2056.87	1.842e+04	-1.633e+04
106	25	471.04	2.536e+04	-0.02	-23.44	0.0	43.90	15.64	217.72	-1.091e+04	-5119.90	-207.01
		-207.01	-5119.90	-0.05	33.47	130.0	43.90	-7.79	251.19	-1.091e+04	2.536e+04	303.19
106	26	5114.03	8224.85	0.06	-23.44	0.0	43.90	-213.52	57.26	1.091e+04	-1394.08	5114.03
		-2.417e+04	-1394.08	-4.64e-03	33.47	130.0	43.90	-236.96	90.73	1.091e+04	8224.85	-2.417e+04
106	27	-228.77	2.698e+04	-0.02	-23.44	0.0	-43.90	13.81	227.95	-1.091e+04	-4828.52	-756.93
		-756.93	-4828.52	-0.05	33.47	130.0	-43.90	-9.62	261.42	-1.091e+04	2.698e+04	-484.45
106	28	4564.10	9846.93	0.05	-23.44	0.0	-43.90	-215.35	67.49	1.091e+04	-1102.70	4564.10
		-2.495e+04	-1102.70	3.07e-03	33.47	130.0	-43.90	-238.78	100.96	1.091e+04	9846.93	-2.495e+04
106	33	2289.53	1.740e+04	0.02	-23.44	0.0	50.43	-89.17	143.47	-799.77	-3422.16	2289.53

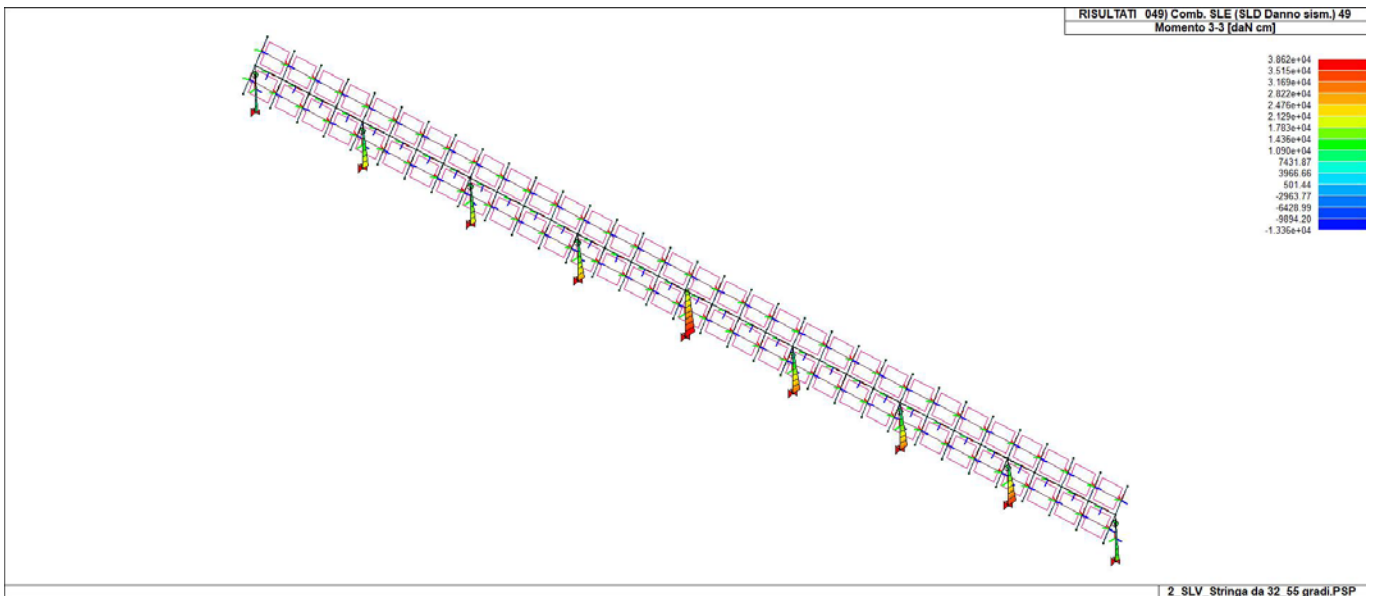
		-1.083e+04	-3422.16	-0.03	33.47	130.0	50.43	-112.60	176.94	-799.77	1.740e+04	-1.083e+04
106	36	2067.57	1.780e+04	0.02	-23.44	0.0	-50.43	-110.54	141.74	799.77	-2800.44	2067.57
		-1.383e+04	-2800.44	-0.02	33.47	130.0	-50.43	-133.98	175.21	799.77	1.780e+04	-1.383e+04
106	57	1238.83	2.065e+04	5.63e-03	-23.44	0.0	15.13	-54.98	172.04	-4243.17	-3885.87	1238.83
		-7432.59	-3885.87	-0.04	33.47	130.0	15.13	-78.42	205.51	-4243.17	2.065e+04	-7432.59
106	58	3307.80	1.399e+04	0.03	-23.44	0.0	15.13	-144.09	109.64	4243.17	-2437.16	3307.80
		-1.695e+04	-2437.16	-0.02	33.47	130.0	15.13	-167.53	143.12	4243.17	1.399e+04	-1.695e+04
106	59	1049.29	2.121e+04	4.75e-03	-23.44	0.0	-15.13	-55.62	175.56	-4243.17	-3785.44	1049.29
		-7704.05	-3785.44	-0.04	33.47	130.0	-15.13	-79.05	209.04	-4243.17	2.121e+04	-7704.05
106	60	3118.27	1.455e+04	0.03	-23.44	0.0	-15.13	-144.72	113.17	4243.17	-2336.73	3118.27
		-1.722e+04	-2336.73	-0.02	33.47	130.0	-15.13	-168.16	146.64	4243.17	1.455e+04	-1.722e+04
107	2	1.482e+04	-4083.15	0.05	-23.44	0.0	-40.31	-73.68	66.23	655.13	-1.487e+04	1.482e+04
		3713.77	-1.487e+04	-0.08	33.47	130.0	-40.31	-97.12	99.71	655.13	-4083.15	3713.77
107	3	1.004e+04	-4511.75	0.05	-23.44	0.0	40.31	-47.75	107.19	-655.13	-2.062e+04	1.004e+04
		2304.42	-2.062e+04	-0.08	33.47	130.0	40.31	-71.19	140.67	-655.13	-4511.75	2304.42
107	25	-2164.86	-8411.26	0.03	-23.44	0.0	-12.09	8.95	132.08	-3842.74	-2.776e+04	-2387.18
		-2746.46	-2.776e+04	-0.09	33.47	130.0	-12.09	-14.48	165.55	-3842.74	-8411.26	-2746.46
107	27	-2067.86	-8158.08	0.04	-23.44	0.0	12.09	9.27	139.14	-3842.74	-2.842e+04	-2305.41
		-2624.06	-2.842e+04	-0.09	33.47	130.0	12.09	-14.17	172.61	-3842.74	-8158.08	-2624.06
107	28	2.724e+04	-183.64	0.07	-23.44	0.0	12.09	-130.39	41.35	3842.74	-7734.72	2.724e+04
		8764.65	-7734.72	-0.06	33.47	130.0	12.09	-153.83	74.82	3842.74	-183.64	8764.65
107	37	1.066e+04	-4907.98	0.05	-23.44	0.0	-13.89	-52.75	88.36	-448.25	-1.857e+04	1.066e+04
		2274.55	-1.857e+04	-0.08	33.47	130.0	-13.89	-76.19	121.83	-448.25	-4907.98	2274.55
107	40	1.420e+04	-3686.91	0.06	-23.44	0.0	13.89	-68.68	85.07	448.25	-1.692e+04	1.420e+04
		3743.64	-1.692e+04	-0.08	33.47	130.0	13.89	-92.12	118.54	448.25	-3686.91	3743.64
107	57	6667.90	-5891.43	0.05	-23.44	0.0	-4.17	-33.62	104.51	-1494.17	-2.165e+04	6667.90
		773.87	-2.165e+04	-0.08	33.47	130.0	-4.17	-57.06	137.98	-1494.17	-5891.43	773.87
107	59	6696.08	-5804.17	0.05	-23.44	0.0	4.17	-33.51	106.94	-1494.17	-2.188e+04	6696.08
		816.05	-2.188e+04	-0.08	33.47	130.0	4.17	-56.95	140.41	-1494.17	-5804.17	816.05
107	60	1.818e+04	-2703.47	0.06	-23.44	0.0	4.17	-87.82	68.92	1494.17	-1.384e+04	1.818e+04
		5244.33	-1.384e+04	-0.07	33.47	130.0	4.17	-111.25	102.39	1494.17	-2703.47	5244.33
Trave		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T		
		-3.351e+04	-2.842e+04	-2.18	-28.36		-334.73	-317.25	-345.16	-1.990e+04		
		2.724e+04	4.739e+04	2.14	33.47		334.73	317.25	345.16	1.990e+04		



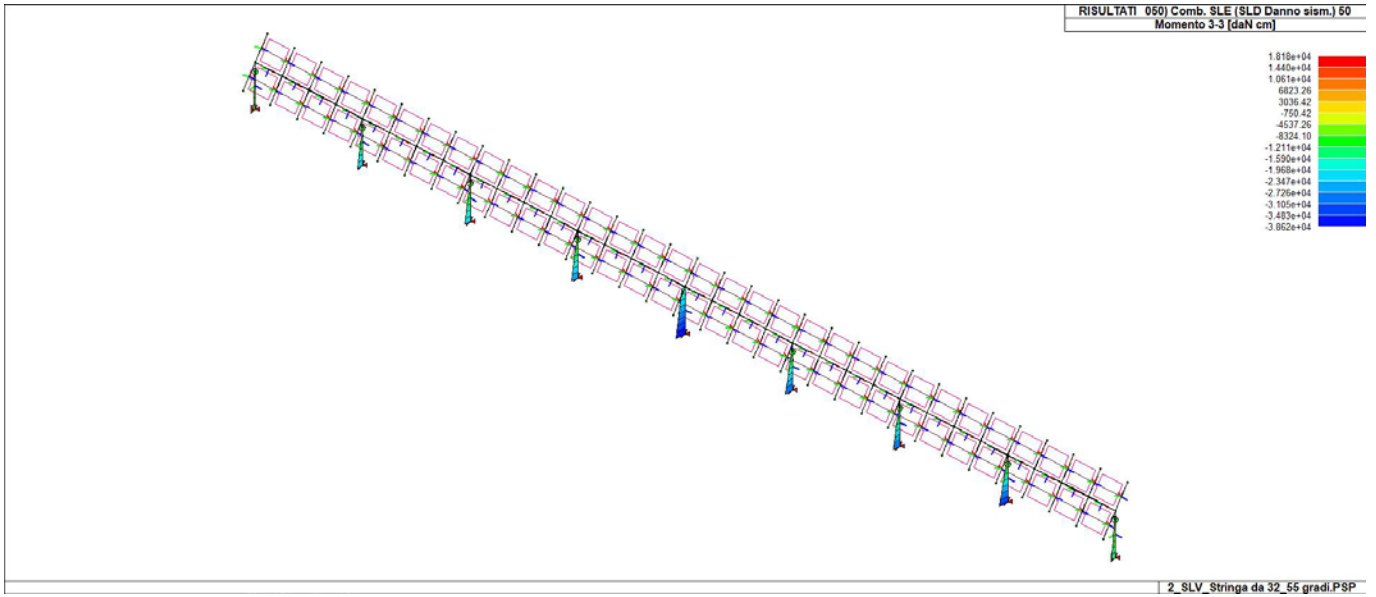
43_RIS_M3_017_Comb. SLU A1 (SLV sism.) 17



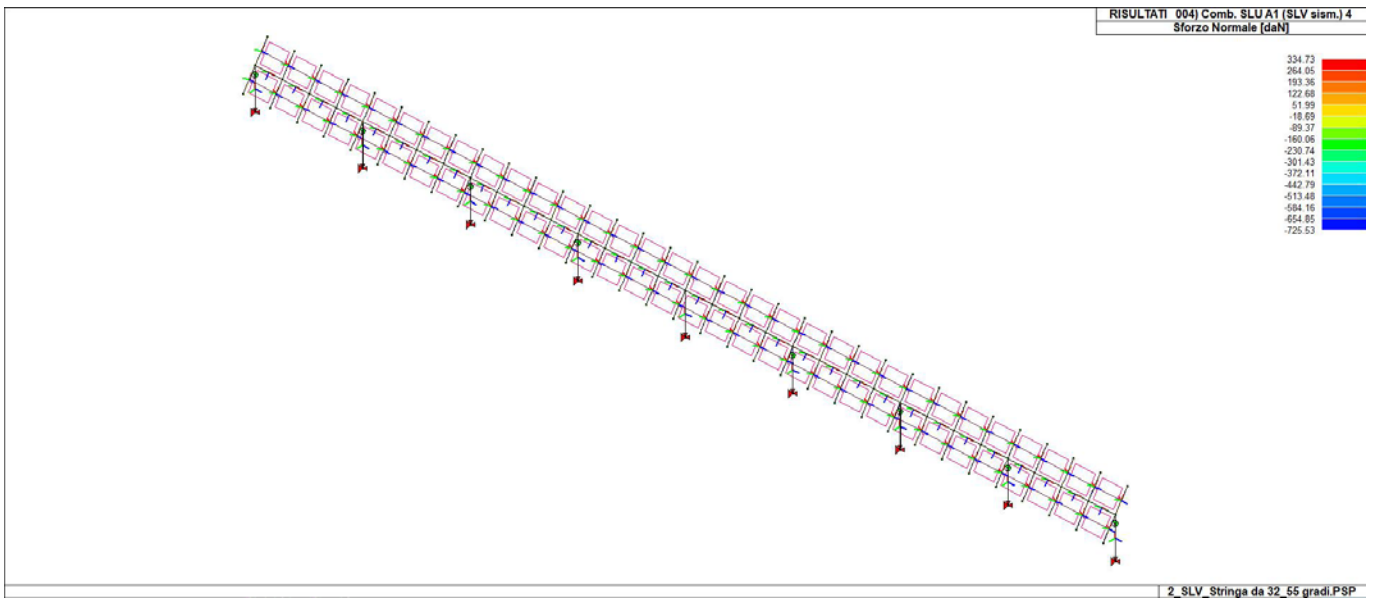
43_RIS_M3_018_Comb. SLU A1 (SLV sism.) 18



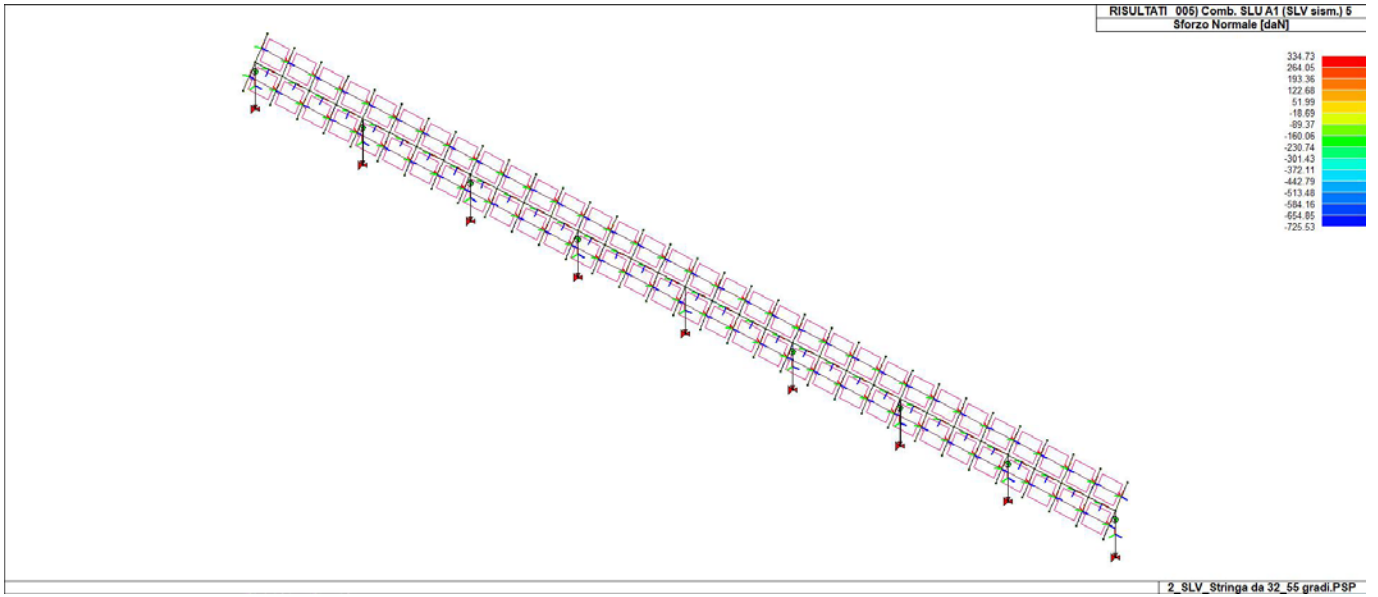
43_RIS_M3_049_Comb. SLE (SLD Danno sism.) 49



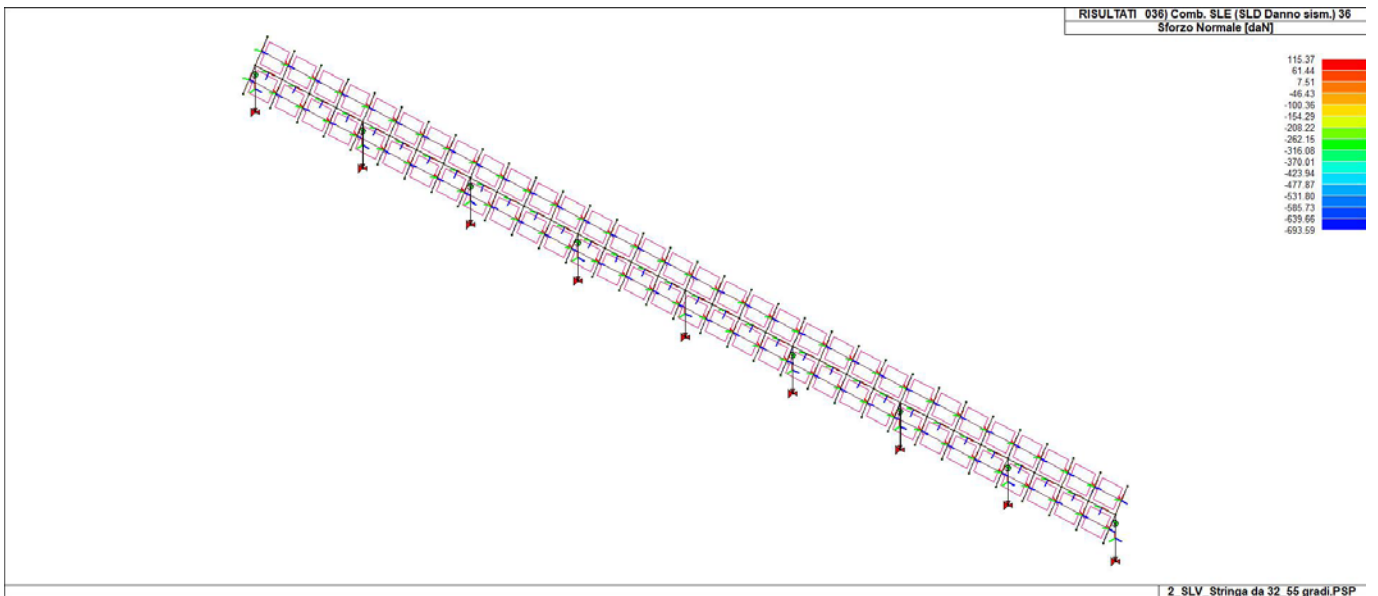
43_RIS_M3_050_Comb. SLE (SLD Danno sism.) 50



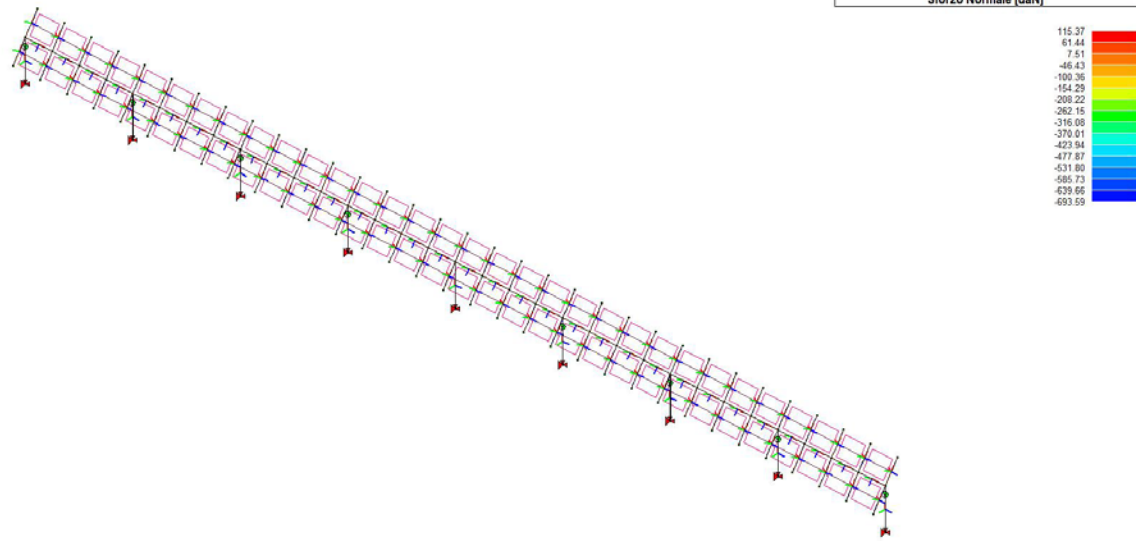
43_RIS_N_004_Comb. SLU A1 (SLV sism.) 4



43_RIS_N_005_Comb. SLU A1 (SLV sism.) 5



43_RIS_N_036_Comb. SLE (SLD Danno sism.) 36



43_RIS_N_037_Comb. SLE (SLD Danno sism.) 37

VERIFICHE PER ELEMENTI IN ACCIAIO

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	X
4.2.4.1.3.3 Membrature inflesse e compresse	X	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	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 flesso-torsionale)			
Beta_{xL}	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 flesso-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 x Omega x 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 x Omega x 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 sovreresistenza come prevista al par. 7.5.4.2 (i valori non sono normalizzati pertanto saranno maggiori uguali a gamma rd in base alla classe di duttilità)			

79	oks=17,m=13	0.01	0.07	1	0.3	0.3	24.5	0.97	0.05 5.76e-02	1.00	27,26,0,26
80	oks=17,m=13	0.03	0.07	1	0.3	0.3	24.5	0.97	0.05 5.75e-02	1.00	27,6,0,26
81	oks=18,m=126.17e-03	0.07	0.07	3	0.4	0.7	59.7	0.73	0.05 0.5	0.84	20,4,0,18
82	oks=18,m=126.30e-03	0.07	0.07	3	0.4	0.7	59.7	0.73	0.05 0.5	0.84	26,8,0,26
83	oks=18,m=128.06e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.08 0.5	0.84	28,8,0,28
84	oks=18,m=128.57e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.09 0.5	0.84	18,4,0,18
85	oks=17,m=13	0.02	0.03	1	0.3	0.3	24.5	0.97	0.02 6.72e-02	1.00	19,20,0,20
86	oks=18,m=126.15e-03	0.07	0.07	3	0.4	0.7	59.7	0.73	0.05 0.5	0.84	28,8,0,26
87	oks=18,m=128.51e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.08 0.5	0.84	28,8,0,28
88	oks=17,m=13	0.01	0.03	1	0.3	0.3	24.5	0.97	0.02 6.18e-02	1.00	27,6,0,26
89	oks=18,m=126.28e-03	0.07	0.07	3	0.4	0.7	59.7	0.73	0.05 0.5	0.84	28,8,0,26
90	oks=17,m=13	0.01	0.03	1	0.3	0.3	24.5	0.97	0.02 6.18e-02	1.00	17,4,0,20
91	oks=17,m=13	0.02	0.04	1	0.3	0.3	24.5	0.97	0.02 6.65e-02	1.00	17,2,0,18
92	oks=18,m=128.73e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.09 0.5	0.84	26,8,0,26
93	oks=17,m=134.34e-03	0.05	0.05	1	0.3	0.3	24.5	0.97	0.04 8.14e-02	1.00	27,26,0,28
94	oks=18,m=128.40e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.08 0.5	0.84	18,4,0,18
95	oks=18,m=128.45e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.08 0.5	0.84	26,8,0,28
96	oks=17,m=13	0.02	0.03	1	0.3	0.3	24.5	0.97	0.02 6.72e-02	1.00	25,26,0,26
97	oks=17,m=13	0.03	0.06	1	0.3	0.3	24.5	0.97	0.03 6.38e-02	1.00	27,6,0,26
98	oks=17,m=134.34e-03	0.05	0.05	1	0.3	0.3	24.5	0.97	0.04 8.14e-02	1.00	17,20,0,18
99	oks=18,m=126.26e-03	0.07	0.07	3	0.4	0.7	59.7	0.73	0.05 0.5	0.84	26,8,0,26
100	oks=18,m=123.64e-03	0.04	0.04	3	0.4	0.7	59.7	0.73	0.03 0.5	0.84	18,4,0,18
101	oks=18,m=126.11e-03	0.07	0.07	3	0.4	0.7	59.7	0.73	0.05 0.5	0.84	26,8,0,28
102	oks=18,m=128.45e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.08 0.5	0.84	18,4,0,18
103	oks=18,m=128.18e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.08 0.5	0.84	18,4,0,18
105	oks=18,m=128.40e-03	0.12	0.12	3	0.4	0.7	59.7	0.73	0.08 0.5	0.84	26,8,0,26
106	oks=17,m=13	0.02	0.05	1	0.3	0.3	24.5	0.97	0.04 5.49e-02	1.00	25,8,0,28
107	oks=17,m=137.06e-03	0.05	0.05	1	0.3	0.3	24.5	0.97	0.04 6.62e-02	1.00	27,28,0,28

Trave	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
	0.04	0.12		0.42	0.69	59.74	0.73	0.09	0.51	0.84

Trave	v.Omeg	f.Om. N	Stato	V N/M	V stab	Rif. cmb	V[7.5.4]	M Ed	V[7.5.5]	N Ed	V[7.5.6]	V Ed,G	V Ed,M
								daN cm		daN		daN	daN
1							0.0	0.0	0.0	0.0	0.0	0.0	0.0
2							0.0	0.0	0.0	0.0	0.0	0.0	0.0
3							0.0	0.0	0.0	0.0	0.0	0.0	0.0
4							0.0	0.0	0.0	0.0	0.0	0.0	0.0
5							0.0	0.0	0.0	0.0	0.0	0.0	0.0
6							0.0	0.0	0.0	0.0	0.0	0.0	0.0
7							0.0	0.0	0.0	0.0	0.0	0.0	0.0
8							0.0	0.0	0.0	0.0	0.0	0.0	0.0
9							0.0	0.0	0.0	0.0	0.0	0.0	0.0
10							0.0	0.0	0.0	0.0	0.0	0.0	0.0
11							0.0	0.0	0.0	0.0	0.0	0.0	0.0
12							0.0	0.0	0.0	0.0	0.0	0.0	0.0
13							0.0	0.0	0.0	0.0	0.0	0.0	0.0
14							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
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
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

45	0.0	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	0.0
47	0.0	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	0.0
49	0.0	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	0.0
51	0.0	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	0.0
53	0.0	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	0.0
55	0.0	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	0.0
57	0.0	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	0.0
61	0.0	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	0.0
63	0.0	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	0.0
65	0.0	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	0.0
68	0.0	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	0.0
70	0.0	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	0.0
72	0.0	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	0.0
75	0.0	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	0.0
78	0.0	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	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	0.0	0.0	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	0.0	0.0
83	0.0	0.0	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	0.0	0.0
85	0.0	0.0	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	0.0	0.0
87	0.0	0.0	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	0.0	0.0
89	0.0	0.0	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	0.0	0.0
91	0.0	0.0	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	0.0	0.0
93	0.0	0.0	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	0.0	0.0
95	0.0	0.0	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	0.0	0.0
97	0.0	0.0	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	0.0	0.0
99	0.0	0.0	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	0.0	0.0
101	0.0	0.0	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	0.0	0.0
103	0.0	0.0	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	0.0	0.0
106	0.0	0.0	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	0.0	0.0

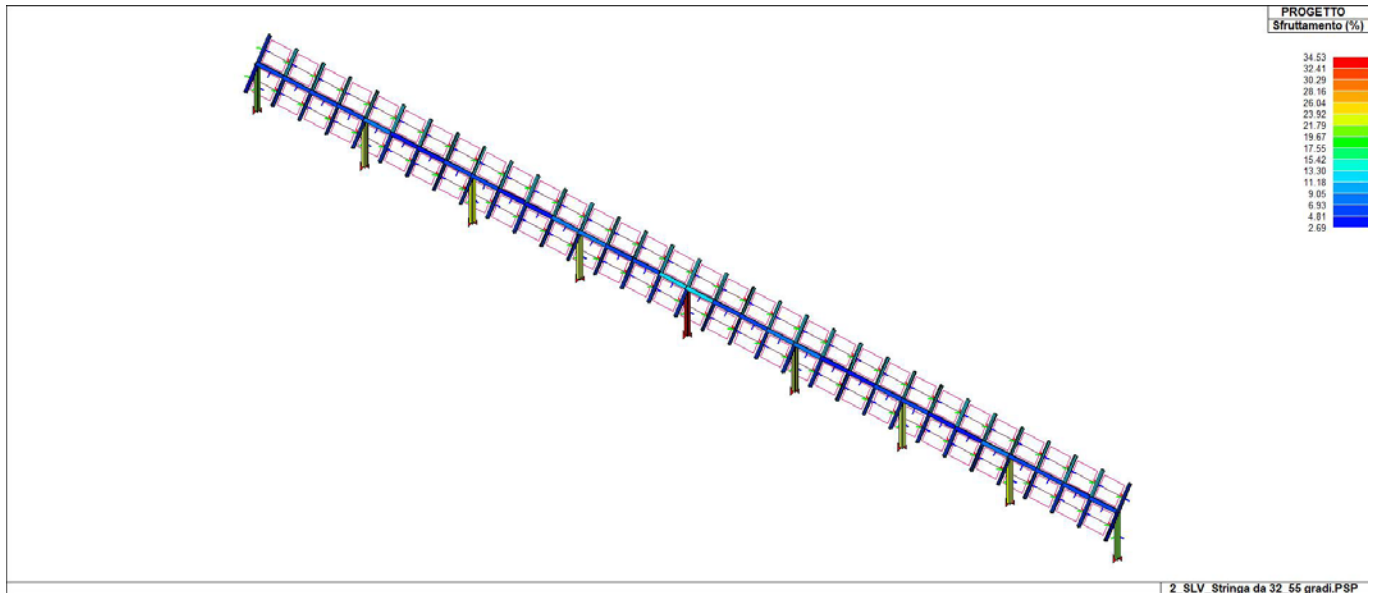
Trave	v.Omeg	V N/M	V stab	V[7.5.4]	M Ed	V[7.5.5]	N Ed	V[7.5.6]	V Ed,G	V Ed,M
				0.0	0.0	0.0	0.0	0.0	0.0	0.0
				0.0	0.0	0.0	0.0	0.0	0.0	0.0

Pilas.	Stato	Note	V V/T	V N/M	V stab	Cl.LamS	22LamS	33	Snell.	Chi mn	V flstLamS	LT	Chi LT	Rif. cmb
22	oks=16,m=12		0.02	0.23		1	1.2	0.7	100.4	0.46	0.12	0.2	1.00	25,5,0,25
23	oks=16,m=12		0.02	0.23		1	1.2	0.7	100.4	0.46	0.12	0.2	1.00	27,7,0,27
38	oks=16,m=12		0.02	0.24		1	1.2	0.7	100.4	0.46	0.14	0.2	1.00	19,3,0,19
58	oks=16,m=12		0.02	0.35		1	1.2	0.7	100.4	0.46	0.16	0.2	1.00	8,3,0,17
60	oks=16,m=12		0.02	0.23		1	1.2	0.7	100.4	0.46	0.12	0.2	1.00	17,1,0,17
67	oks=16,m=12		0.01	0.21		1	1.2	0.7	100.4	0.46	0.06	0.2	1.00	19,3,0,19
73	oks=16,m=12		0.01	0.21		1	1.2	0.7	100.4	0.46	0.06	0.2	1.00	25,5,0,25
77	oks=16,m=12		0.02	0.23		1	1.2	0.7	100.4	0.46	0.12	0.2	1.00	19,3,0,19
104	oks=16,m=12		0.02	0.24		1	1.2	0.7	100.4	0.46	0.14	0.2	1.00	25,5,0,25

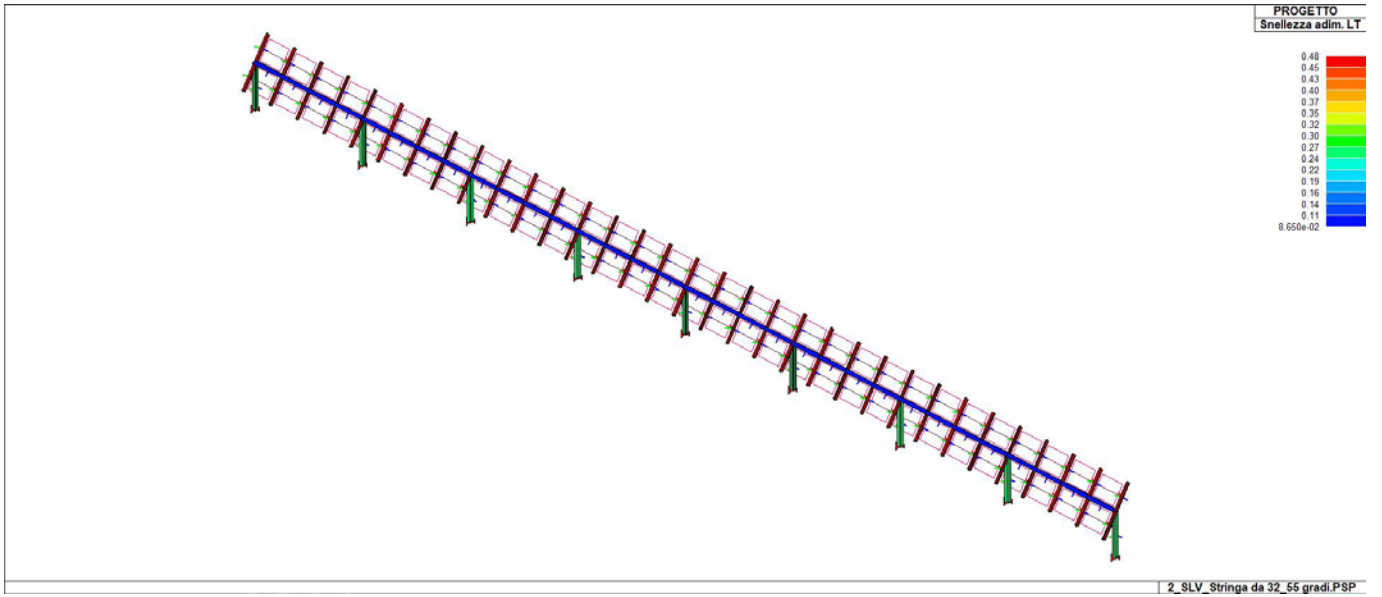
Pilas.	V V/T	V N/M	V stab	LamS 22	LamS 33	Snell.	Chi mn	V flst	LamS LT	Chi LT
	0.02	0.35		1.16	0.70	100.39	0.46	0.16	0.20	1.00

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. daN	Xi sovr.	Xf sovr.	Yi sovr.	Yf sovr.
22	0.0	0.0	ok	0.0	0.0			0,0,0,0					
23	0.0	0.0	ok	0.0	0.0			0,0,0,0					
38	0.0	0.0	ok	0.0	0.0			0,0,0,0					
58	0.0	0.0	ok	0.0	0.0			0,0,0,0					
60	0.0	0.0	ok	0.0	0.0			0,0,0,0					
67	0.0	0.0	ok	0.0	0.0			0,0,0,0					
73	0.0	0.0	ok	0.0	0.0			0,0,0,0					
77	0.0	0.0	ok	0.0	0.0			0,0,0,0					
104	0.0	0.0	ok	0.0	0.0			0,0,0,0					

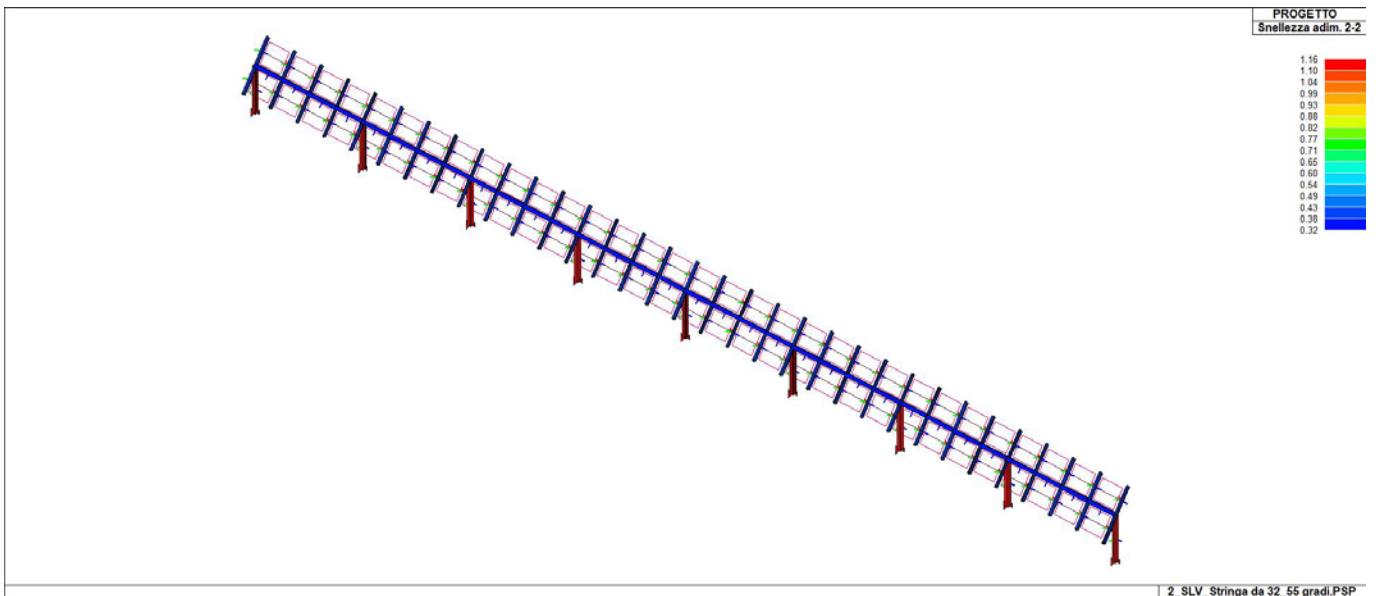
Pilas.	V V/T	V N/M	V stab	V flst	V[7.5.10]	V Ed sovr.	Xi sovr.	Xf sovr.	Yi sovr.	Yf sovr.
	0.0	0.0								



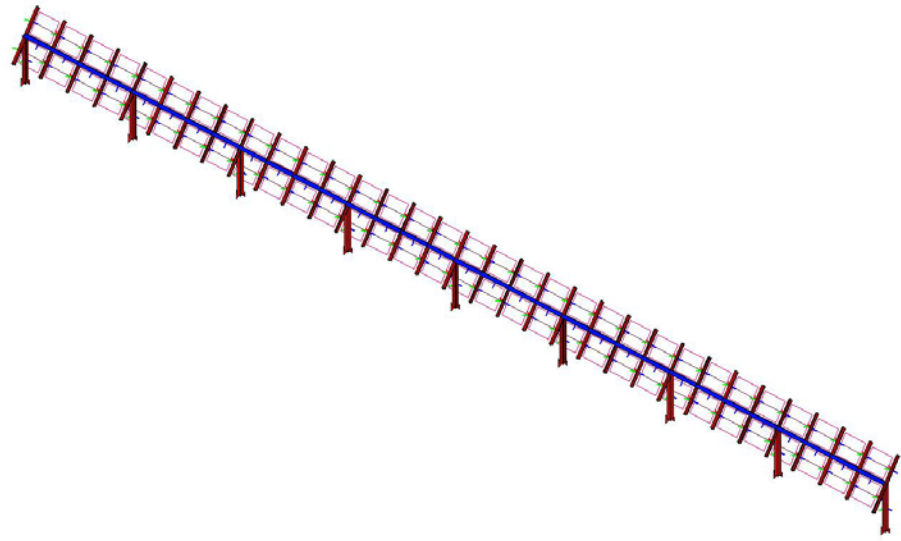
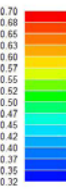
73_PRO_ST_SFRUTTAMENTO



73_PRO_ST_SNELLEZZATOR



73_PRO_ST_SNELLEZZAXX



73_PRO_ST_SNELLEZZAY



Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 17 Gennaio 2018 cap. 10 “Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo”.

Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2021-12-194)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it
Codice Licenza:	Licenza dsi5815

Descrizione	
Progetto	CALCOLO E VERIFICA DEI PALI DI RECINZIONE A NEVE E VENTO
Ubicazione	Comune di DELICETO (FG) (Regione PUGLIA) Località DELICETO (FG) Longitudine 15.386, Latitudine 41.222

FASCICOLO DI CALCOLO

TOMO N.4 – VERIFICHE DI RESISTENZA PALI DI RECINZIONE A VENTO

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RELAZIONE DI CALCOLO STRUTTURALE

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.

Descrizione generale dell'opera

In questo **Tomo di calcolo n.4** sono riportate le verifiche strutturali SLU e SLE a vento dei pali di recinzione atti a sopportare le sollecitazioni dei pannelli Orsogrill tipo Sterope.

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

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:

$$\mathbf{K} \cdot \mathbf{u} = \mathbf{F} \quad \text{dove} \quad \mathbf{K} = \text{matrice di rigidezza}$$

\mathbf{u} = vettore spostamenti nodali

\mathbf{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 rigidità)
Elemento tipo BRICK	(elemento solido)
Elemento tipo SOLAIO	(macro elemento composto da più membrane)

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	
Sismica statica lineare	NO
Sismica dinamica lineare	NO
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
Analisi lineare	SI

Modellazione della geometria e proprietà meccaniche:	
nodi	24
elementi D2 (per aste, travi, pilastri...)	18
elementi D3 (per pareti, platee, gusci...)	0
elementi solaio	0
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	0.00
Xmax =	1000.00
Ymin =	0.00
Ymax =	0.00
Zmin =	0.00
Zmax =	250.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastri	SI
Pareti	NO

Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	NO
Travi	NO
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

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”*.

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
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI

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 involuipi 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 anormali. 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.).

Completare

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.

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.

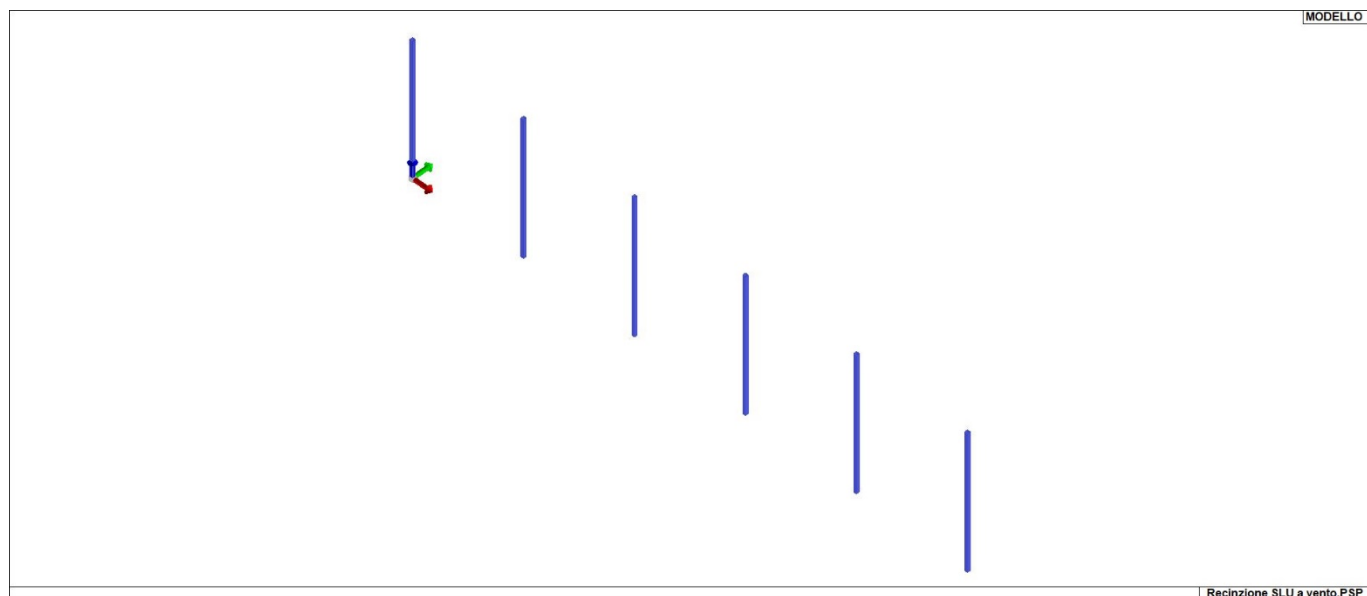
RELAZIONE SUI MATERIALI

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

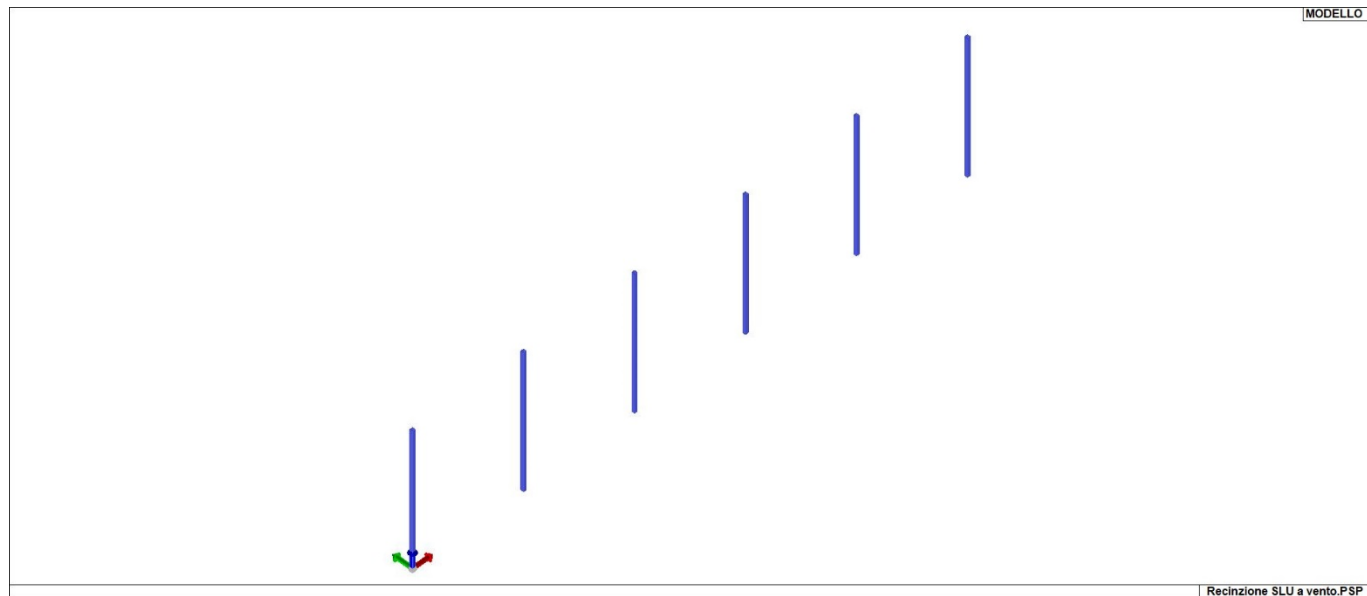
NORMATIVA DI RIFERIMENTO

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.



01_INT_VISTA_SOLIDATA_001



01_INT_VISTA_SOLIDATA_002

CARATTERISTICHE MATERIALI UTILIZZATI

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

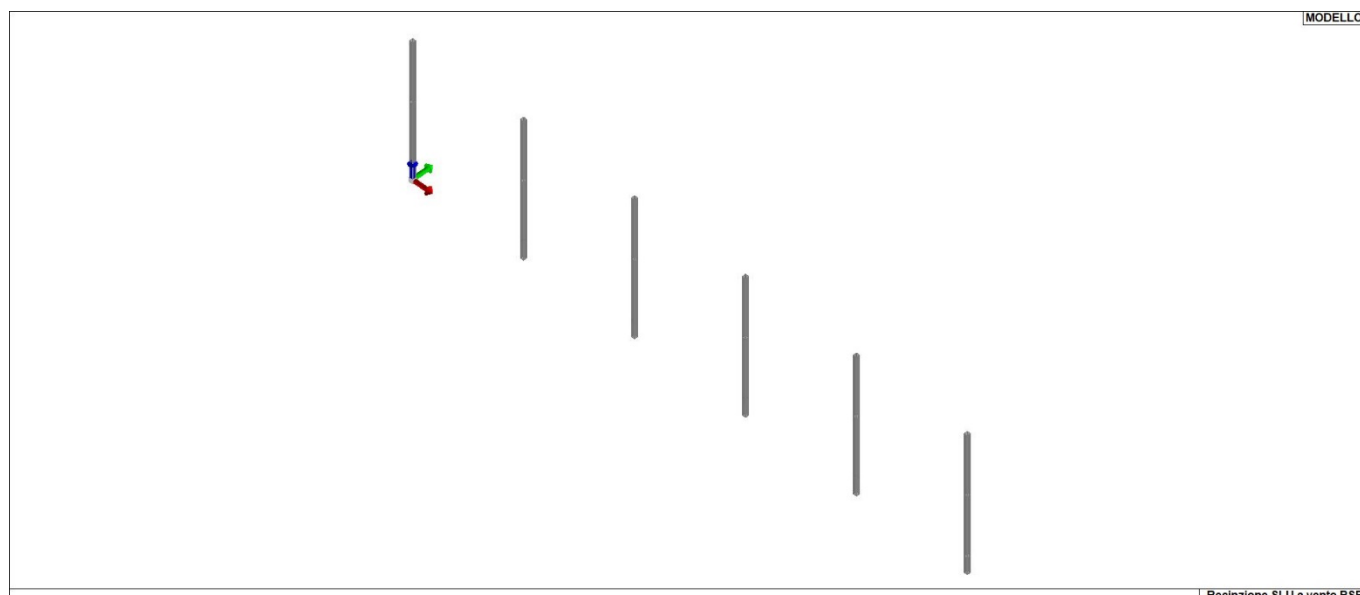
I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	c.a.	Resistenza Rc Resistenza fctm Coefficiente ksb	resistenza a compressione cubica resistenza media a trazione semplice Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft Tensione fy Resistenza fd Resistenza fd (>40) Tensione ammissibile Tensione ammissibile(>40)	Valore della tensione di rottura Valore della tensione di snervamento Resistenza di calcolo per SL CNR-UNI 10011 Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm Tensione ammissibile CNR-UNI 10011 Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura	Muratura consolidata Incremento resistenza Incremento rigidezza Resistenza f Resistenza fv0 Resistenza fh Resistenza fb Resistenza fbh Resistenza fv0h Resistenza ft Resistenza flim Resistenza fbt Coefficiente mu Coefficiente fi Coefficiente ksb	Muratura per la quale si prevedono interventi di rinforzo* Incremento conseguito in termini di resistenza Incremento conseguito in termini di rigidezza Valore della resistenza a compressione Valore della resistenza a taglio in assenza di tensioni normali Valore della resistenza a compressione orizzontale Valore della resistenza a compressione dei blocchi Valore della resistenza a compressione dei blocchi in direzione orizzontale Valore della resistenza a taglio in assenza di tensioni normali per le travi Valore della resistenza a trazione per fessurazione diagonale Valore della massima resistenza a taglio Valore della resistenza a trazione dei blocchi Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4) Coefficiente d'ingranamento utilizzato per la resistenza a taglio Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	E0,05 Resistenza fc0 Resistenza ft0 Resistenza fm Resistenza fv Resist. ft0k Resist. fmk Resist. fvk Modulo E0,05 Lamellare	Modulo di elasticità corrispondente ad un frattile del 5% Valore della resistenza a compressione parallela Valore della resistenza a trazione parallela Valore della resistenza a flessione Valore della resistenza a taglio Resistenza caratteristica (tensione amm. per REGLES) per trazione Resistenza caratteristica (tensione amm. per REGLES) per flessione Resistenza caratteristica (tensione amm. per REGLES) per taglio Modulo elastico parallelo caratteristico 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.

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
12	Acciaio Fe430 - S275-acciaio Fe430-S275			2.100e+06	0.30	8.077e+05	7.85e-03	1.20e-05	
	Tensione ft	4300.0							
	Resistenza fd	2750.0							
	Resistenza fd (>40)	2500.0							
	Tensione ammissibile	1900.0							
	Tensione ammissibile (>40)	1700.0							
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05



11_MOD_MATERIALI_D2

Pilastri 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					
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					

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

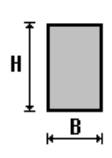
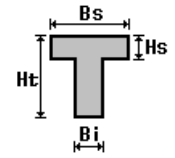
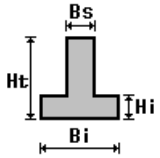
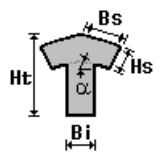
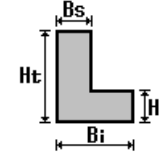
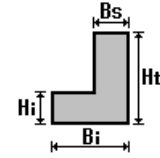
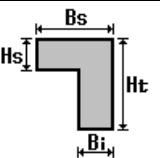
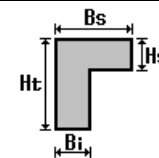
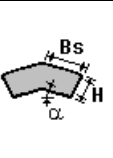
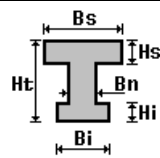
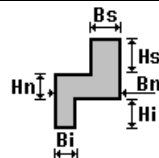
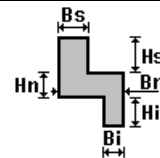
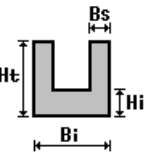
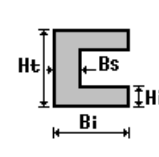
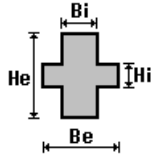
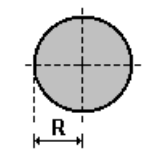
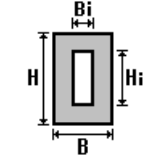
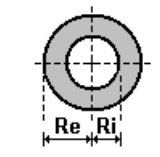
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

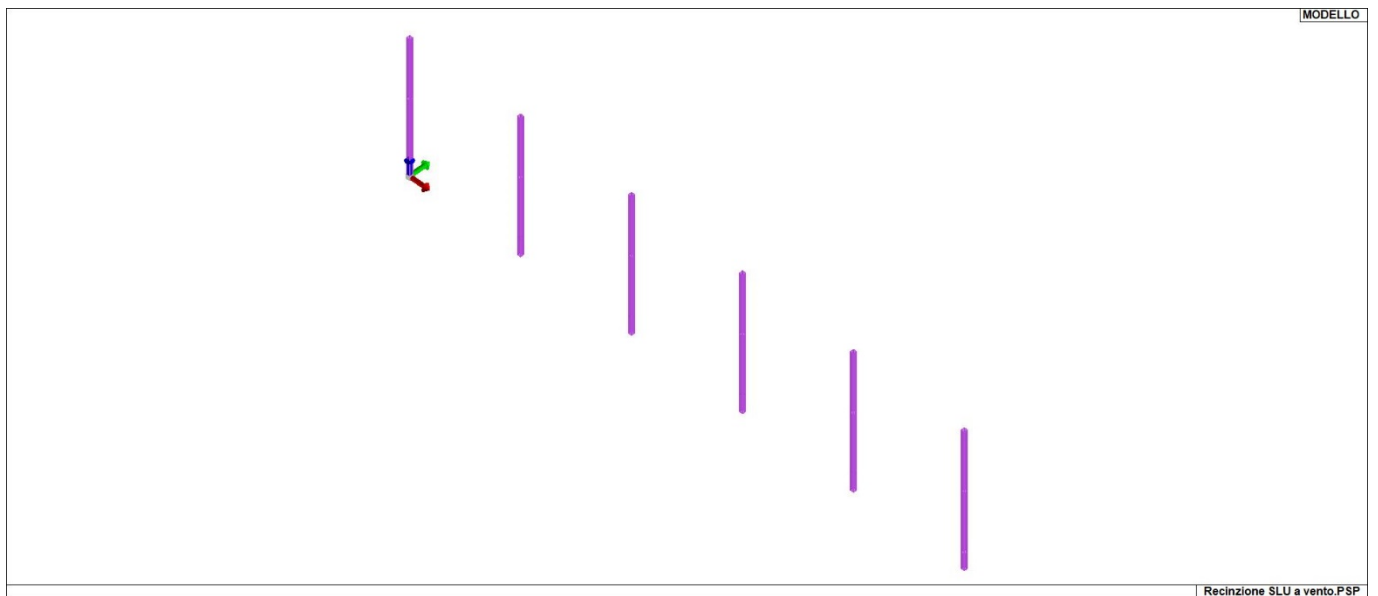
I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali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

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
15	profilo Q60x2.0 (Section Maker)	4.49	0.0	0.0	39.87	24.72	24.72	8.24	8.24	9.65	9.65



13_MOD_SEZIONI

MODELLAZIONE STRUTTURA: NODI

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:

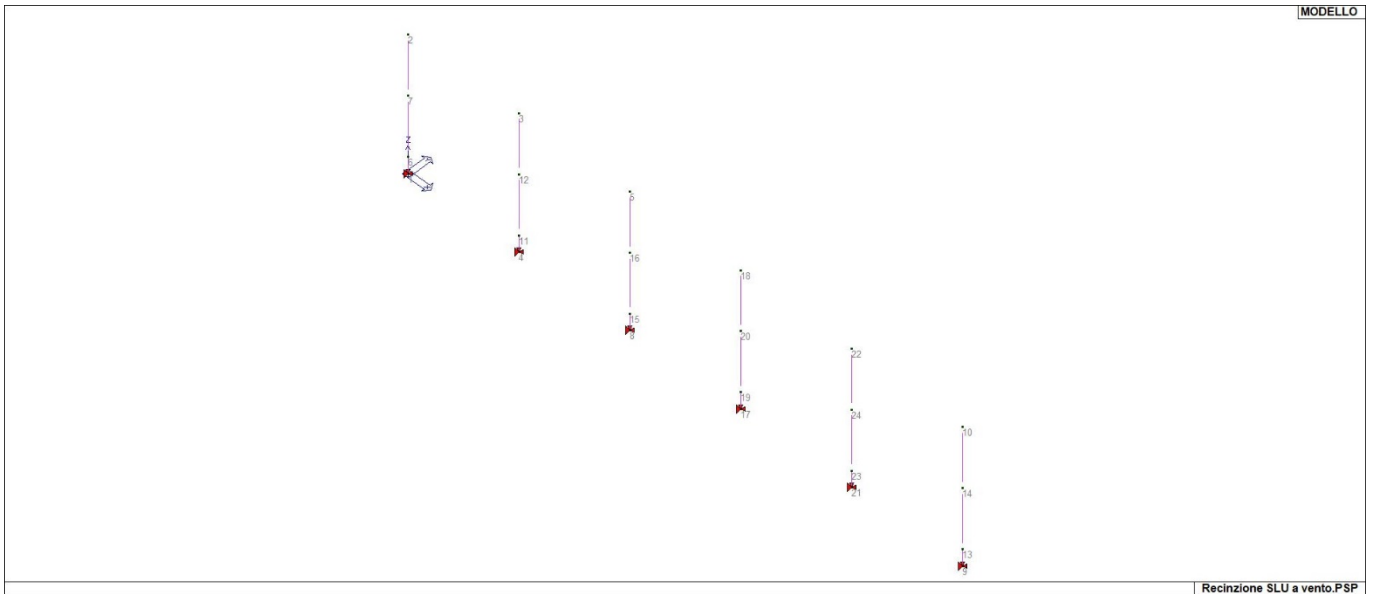
Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, 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

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
2	0.0	0.0	250.0	3	200.0	0.0	250.0	5	400.0	0.0	250.0
6	0.0	0.0	30.0	7	0.0	0.0	140.0	10	1000.0	0.0	250.0
11	200.0	0.0	30.0	12	200.0	0.0	140.0	13	1000.0	0.0	30.0
14	1000.0	0.0	140.0	15	400.0	0.0	30.0	16	400.0	0.0	140.0
18	600.0	0.0	250.0	19	600.0	0.0	30.0	20	600.0	0.0	140.0
22	800.0	0.0	250.0	23	800.0	0.0	30.0	24	800.0	0.0	140.0

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
1	0.0	0.0	0.0	v=111111						
4	200.0	0.0	0.0	v=111111						
8	400.0	0.0	0.0	v=111111						
9	1000.0	0.0	0.0	v=111111						
17	600.0	0.0	0.0	v=111111						
21	800.0	0.0	0.0	v=111111						



14_MOD_NUMERAZIONE_NODI

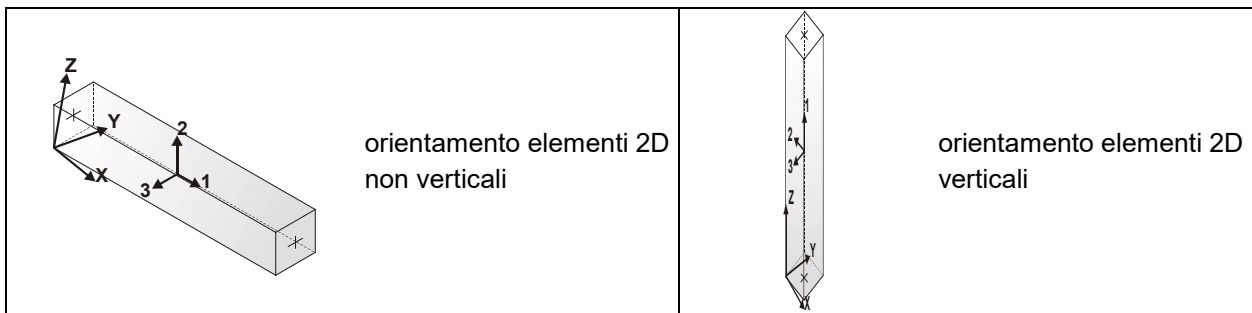
MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

TABELLA DATI TRAVI

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

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

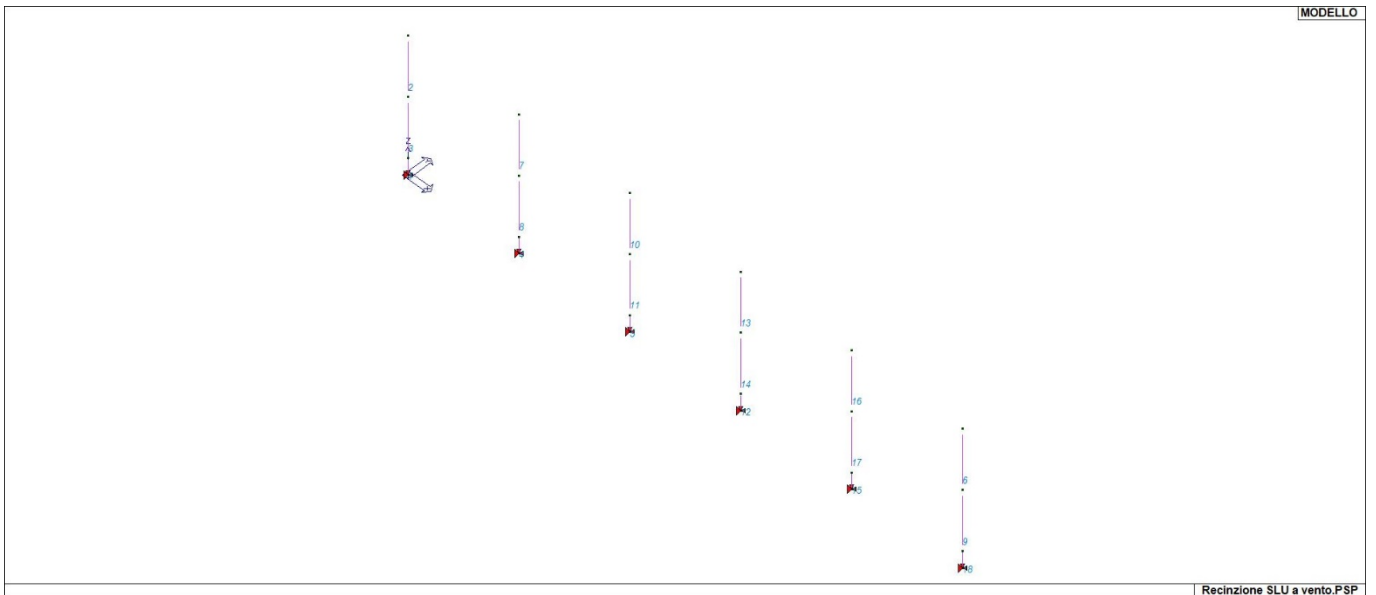
Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



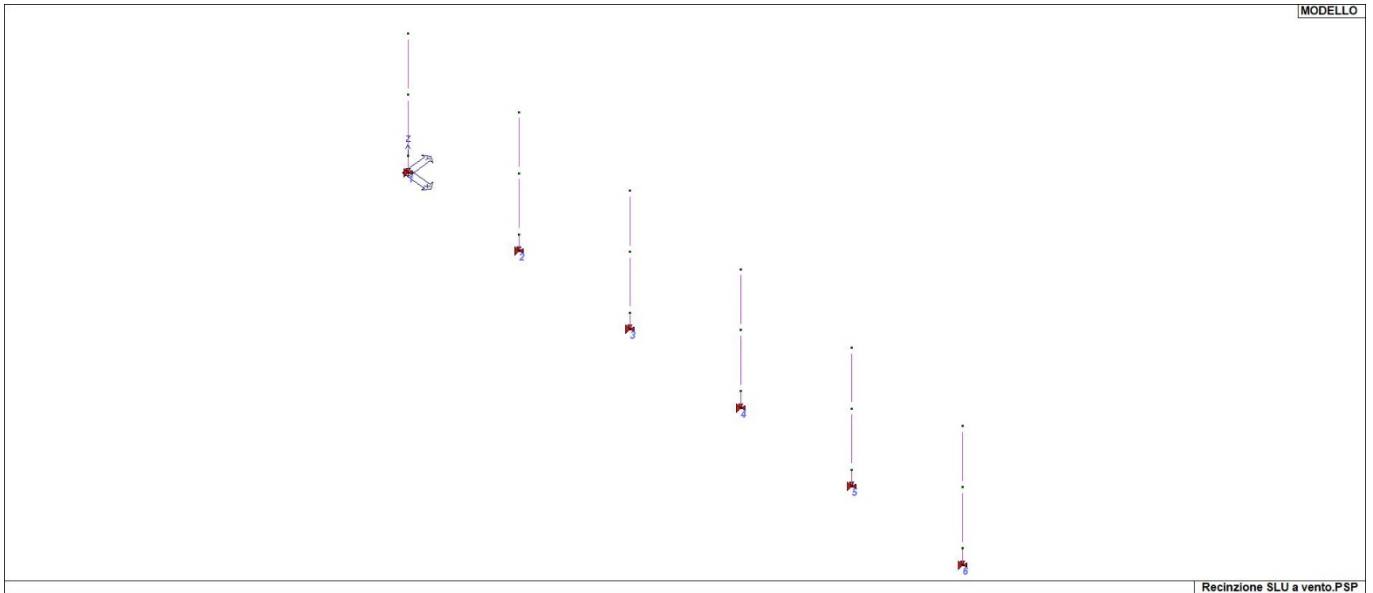
In particolare per ogni elemento viene indicato in tabella:

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

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Crit.	Rotaz.	Svincolo I	Svincolo J	Wink V	Wink O
							gradi			daN/cm3	daN/cm3
1	Pilas.	1	6	12	15	1	90.00				
2	Pilas.	7	2	12	15	1	90.00				
3	Pilas.	6	7	12	15	1	90.00				
4	Pilas.	4	11	12	15	1	90.00				
5	Pilas.	8	15	12	15	1	90.00				
6	Pilas.	14	10	12	15	1	90.00				
7	Pilas.	12	3	12	15	1	90.00				
8	Pilas.	11	12	12	15	1	90.00				
9	Pilas.	13	14	12	15	1	90.00				
10	Pilas.	16	5	12	15	1	90.00				
11	Pilas.	15	16	12	15	1	90.00				
12	Pilas.	17	19	12	15	1	90.00				
13	Pilas.	20	18	12	15	1	90.00				
14	Pilas.	19	20	12	15	1	90.00				
15	Pilas.	21	23	12	15	1	90.00				
16	Pilas.	24	22	12	15	1	90.00				
17	Pilas.	23	24	12	15	1	90.00				
18	Pilas.	9	13	12	15	1	90.00				



15_MOD_NUMERAZIONE_D2



15_MOD_NUMERAZIONE_D2_PILASTRATE

MODELLAZIONE DELLE AZIONI

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 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 (f_x , f_y , f_z , m_x , m_y , m_z , ascissa di inizio carico) 7 dati (f_x , f_y , f_z , m_x , m_y , m_z , ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati (f_1 , f_2 , f_3 , m_1 , m_2 , m_3 , ascissa di inizio carico) 7 dati (f_1 , f_2 , f_3 , m_1 , m_2 , m_3 , ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati (F_x , F_y , F_z , M_x , M_y , M_z , ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati (F_1 , F_2 , F_3 , M_1 , M_2 , M_3 , 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 concentrato nodale

Id	Tipo	Fx	Fy	Fz	Mx	My	Mz
		daN	daN	daN	daN cm	daN cm	daN cm
9	CN:Fy=11.00	0.0	11.00	0.0	0.0	0.0	0.0
10	CN:Fz=-7.00	0.0	0.0	-7.00	0.0	0.0	0.0

SCHEMATIZZAZIONE DEI CASI DI CARICO

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:

	Sigla	Tipo	Descrizione
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.

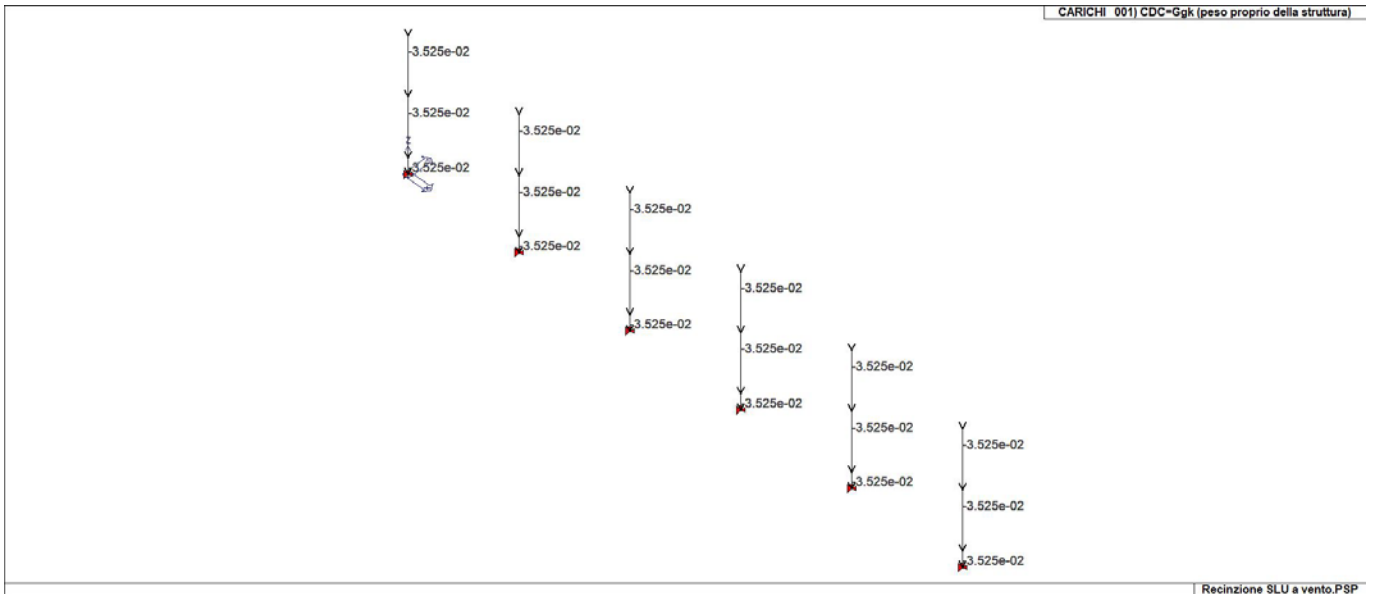
Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

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

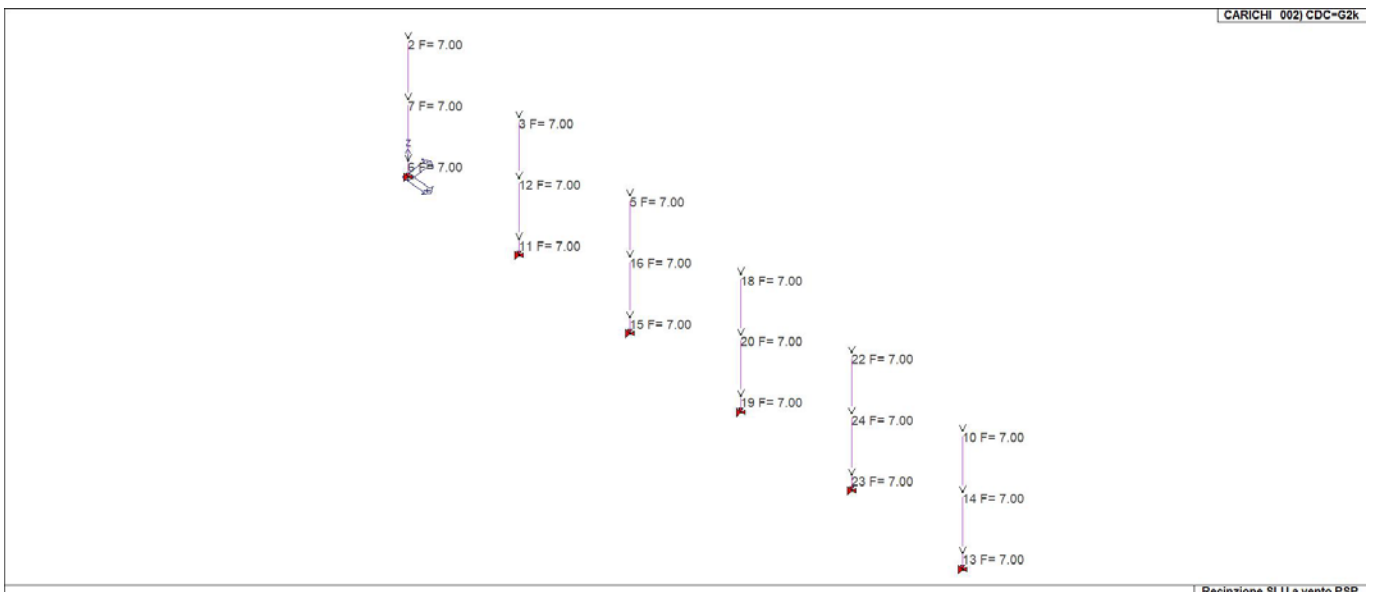
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

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.

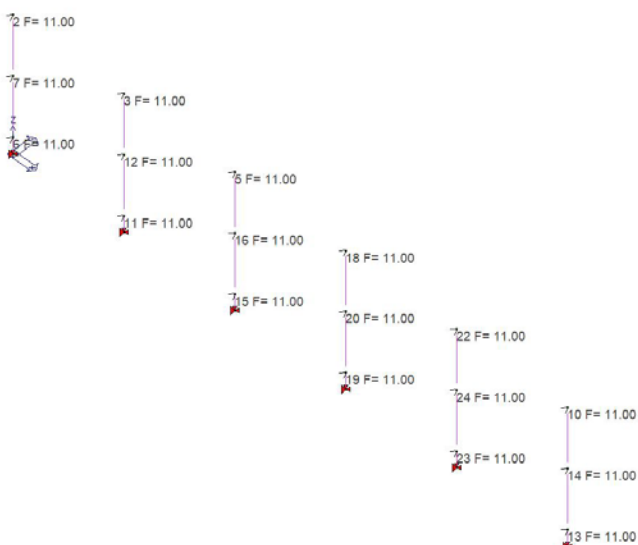
CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gk	CDC=G2k	Azioni applicate:
			Nodo:da 2 a 3 Azione : CN:Fz=-7.00
			Nodo:da 5 a 7 Azione : CN:Fz=-7.00
			Nodo:da 10 a 16 Azione : CN:Fz=-7.00
			Nodo:da 18 a 20 Azione : CN:Fz=-7.00
			Nodo:da 22 a 24 Azione : CN:Fz=-7.00
3	Qk	CDC=Qk v	Azioni applicate:
			Nodo:da 2 a 3 Azione : CN:Fy=11.00
			Nodo:da 5 a 7 Azione : CN:Fy=11.00
			Nodo:da 10 a 16 Azione : CN:Fy=11.00
			Nodo:da 18 a 20 Azione : CN:Fy=11.00
			Nodo:da 22 a 24 Azione : CN:Fy=11.00



22_CDC_001_CDC=Ggk (peso proprio della struttura)



22_CDC_002_CDC=G2k



22_CDC_003_CDC=Qk v

DEFINIZIONE DELLE COMBINAZIONI

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

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

RISULTATI NODALI

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).

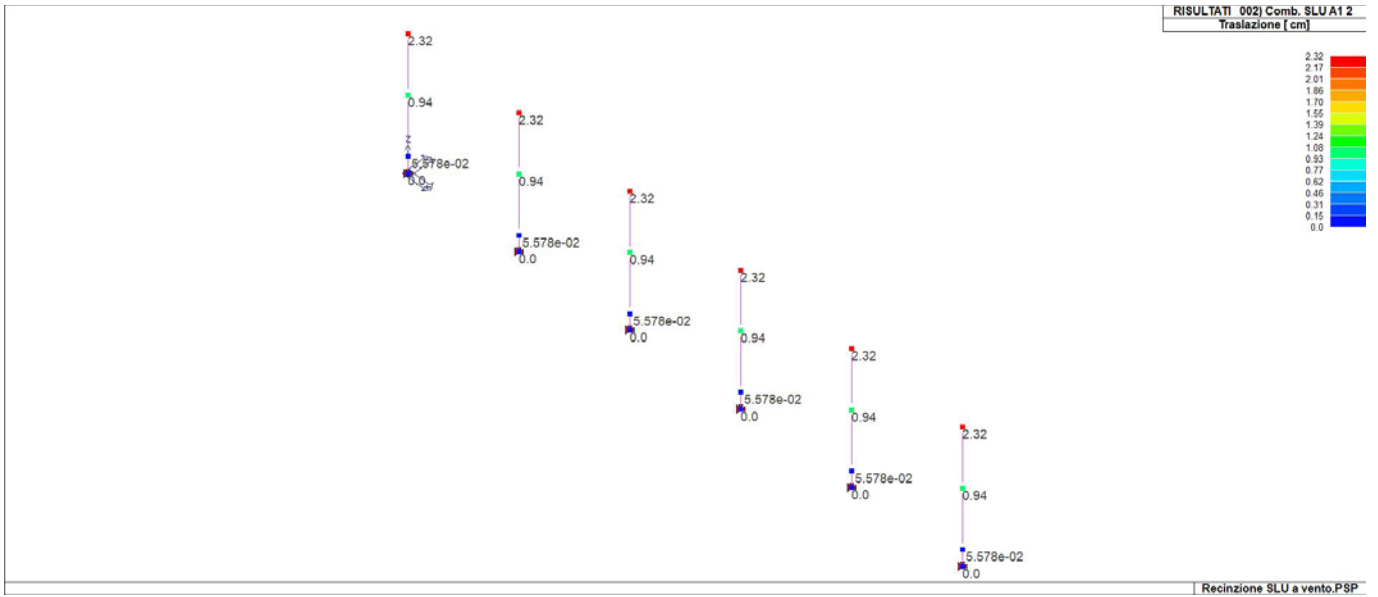
Una terza tabella, infine riassume per ogni nodo le sei combinazioni in cui si attingono i valori minimi e massimi della reazione Fz, della reazione Mx e della reazione My.

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	3	0.0	0.0	0.0	0.0	0.0	0.0
1	5	0.0	0.0	0.0	0.0	0.0	0.0
1	6	0.0	0.0	0.0	0.0	0.0	0.0
2	1	0.0	0.0	-6.20e-04	0.0	0.0	0.0
2	2	0.0	2.32	-6.20e-04	-0.01	0.0	0.0
2	3	0.0	0.0	-4.29e-04	0.0	0.0	0.0
2	4	0.0	1.55	-4.29e-04	-8.79e-03	0.0	0.0
2	5	0.0	0.31	-4.29e-04	-1.76e-03	0.0	0.0
2	6	0.0	0.0	-4.29e-04	0.0	0.0	0.0
3	1	0.0	0.0	-6.20e-04	0.0	0.0	0.0
3	2	0.0	2.32	-6.20e-04	-0.01	0.0	0.0
3	3	0.0	0.0	-4.29e-04	0.0	0.0	0.0
3	4	0.0	1.55	-4.29e-04	-8.79e-03	0.0	0.0
3	5	0.0	0.31	-4.29e-04	-1.76e-03	0.0	0.0
3	6	0.0	0.0	-4.29e-04	0.0	0.0	0.0
4	1	0.0	0.0	0.0	0.0	0.0	0.0
4	3	0.0	0.0	0.0	0.0	0.0	0.0
4	5	0.0	0.0	0.0	0.0	0.0	0.0
4	6	0.0	0.0	0.0	0.0	0.0	0.0
5	1	0.0	0.0	-6.20e-04	0.0	0.0	0.0
5	2	0.0	2.32	-6.20e-04	-0.01	0.0	0.0
5	3	0.0	0.0	-4.29e-04	0.0	0.0	0.0
5	4	0.0	1.55	-4.29e-04	-8.79e-03	0.0	0.0
5	5	0.0	0.31	-4.29e-04	-1.76e-03	0.0	0.0
5	6	0.0	0.0	-4.29e-04	0.0	0.0	0.0
6	1	0.0	0.0	-1.34e-04	0.0	0.0	0.0
6	2	0.0	0.06	-1.34e-04	-3.58e-03	0.0	0.0
6	3	0.0	0.0	-9.32e-05	0.0	0.0	0.0
6	4	0.0	0.04	-9.32e-05	-2.38e-03	0.0	0.0
6	5	0.0	7.44e-03	-9.32e-05	-4.77e-04	0.0	0.0
6	6	0.0	0.0	-9.32e-05	0.0	0.0	0.0
7	1	0.0	0.0	-4.68e-04	0.0	0.0	0.0
7	2	0.0	0.94	-4.68e-04	-0.01	0.0	0.0
7	3	0.0	0.0	-3.24e-04	0.0	0.0	0.0
7	4	0.0	0.63	-3.24e-04	-7.51e-03	0.0	0.0
7	5	0.0	0.13	-3.24e-04	-1.50e-03	0.0	0.0
7	6	0.0	0.0	-3.24e-04	0.0	0.0	0.0
8	1	0.0	0.0	0.0	0.0	0.0	0.0
8	3	0.0	0.0	0.0	0.0	0.0	0.0
8	5	0.0	0.0	0.0	0.0	0.0	0.0
8	6	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	3	0.0	0.0	0.0	0.0	0.0	0.0
9	5	0.0	0.0	0.0	0.0	0.0	0.0
9	6	0.0	0.0	0.0	0.0	0.0	0.0
10	1	0.0	0.0	-6.20e-04	0.0	0.0	0.0
10	2	0.0	2.32	-6.20e-04	-0.01	0.0	0.0

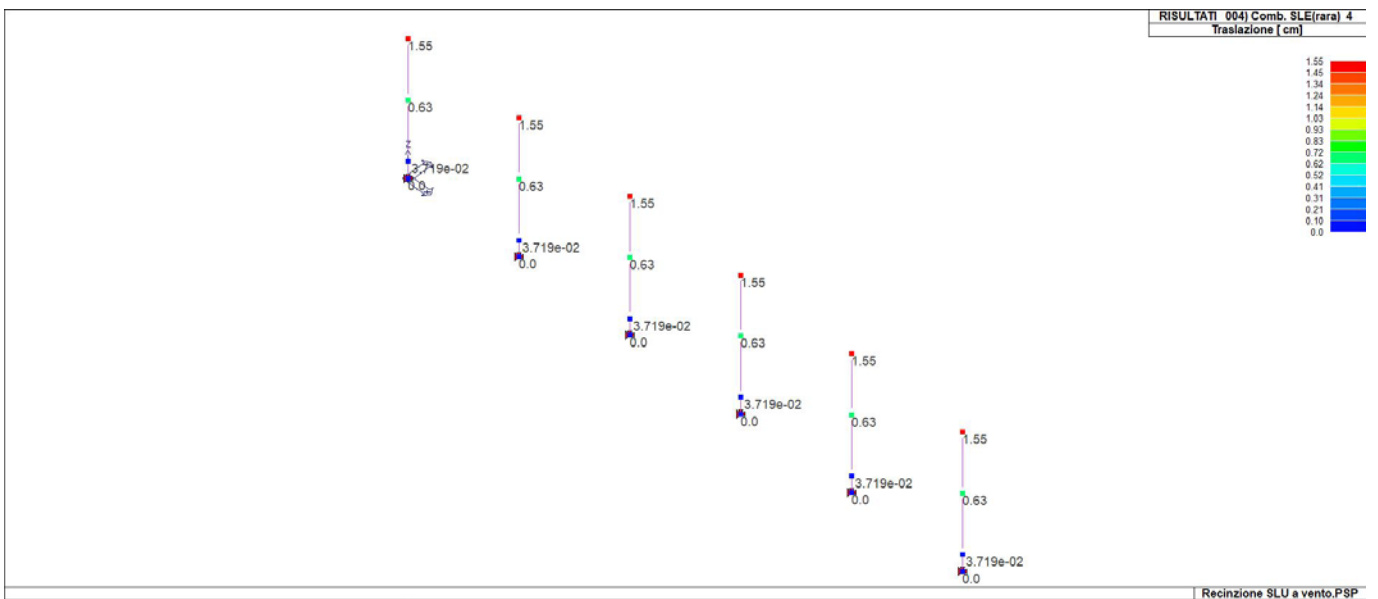
10	3	0.0	0.0	-4.29e-04	0.0	0.0	0.0
10	4	0.0	1.55	-4.29e-04	-8.79e-03	0.0	0.0
10	5	0.0	0.31	-4.29e-04	-1.76e-03	0.0	0.0
10	6	0.0	0.0	-4.29e-04	0.0	0.0	0.0
11	1	0.0	0.0	-1.34e-04	0.0	0.0	0.0
11	2	0.0	0.06	-1.34e-04	-3.58e-03	0.0	0.0
11	3	0.0	0.0	-9.32e-05	0.0	0.0	0.0
11	4	0.0	0.04	-9.32e-05	-2.38e-03	0.0	0.0
11	5	0.0	7.44e-03	-9.32e-05	-4.77e-04	0.0	0.0
11	6	0.0	0.0	-9.32e-05	0.0	0.0	0.0
12	1	0.0	0.0	-4.68e-04	0.0	0.0	0.0
12	2	0.0	0.94	-4.68e-04	-0.01	0.0	0.0
12	3	0.0	0.0	-3.24e-04	0.0	0.0	0.0
12	4	0.0	0.63	-3.24e-04	-7.51e-03	0.0	0.0
12	5	0.0	0.13	-3.24e-04	-1.50e-03	0.0	0.0
12	6	0.0	0.0	-3.24e-04	0.0	0.0	0.0
13	1	0.0	0.0	-1.34e-04	0.0	0.0	0.0
13	2	0.0	0.06	-1.34e-04	-3.58e-03	0.0	0.0
13	3	0.0	0.0	-9.32e-05	0.0	0.0	0.0
13	4	0.0	0.04	-9.32e-05	-2.38e-03	0.0	0.0
13	5	0.0	7.44e-03	-9.32e-05	-4.77e-04	0.0	0.0
13	6	0.0	0.0	-9.32e-05	0.0	0.0	0.0
14	1	0.0	0.0	-4.68e-04	0.0	0.0	0.0
14	2	0.0	0.94	-4.68e-04	-0.01	0.0	0.0
14	3	0.0	0.0	-3.24e-04	0.0	0.0	0.0
14	4	0.0	0.63	-3.24e-04	-7.51e-03	0.0	0.0
14	5	0.0	0.13	-3.24e-04	-1.50e-03	0.0	0.0
14	6	0.0	0.0	-3.24e-04	0.0	0.0	0.0
15	1	0.0	0.0	-1.34e-04	0.0	0.0	0.0
15	2	0.0	0.06	-1.34e-04	-3.58e-03	0.0	0.0
15	3	0.0	0.0	-9.32e-05	0.0	0.0	0.0
15	4	0.0	0.04	-9.32e-05	-2.38e-03	0.0	0.0
15	5	0.0	7.44e-03	-9.32e-05	-4.77e-04	0.0	0.0
15	6	0.0	0.0	-9.32e-05	0.0	0.0	0.0
16	1	0.0	0.0	-4.68e-04	0.0	0.0	0.0
16	2	0.0	0.94	-4.68e-04	-0.01	0.0	0.0
16	3	0.0	0.0	-3.24e-04	0.0	0.0	0.0
16	4	0.0	0.63	-3.24e-04	-7.51e-03	0.0	0.0
16	5	0.0	0.13	-3.24e-04	-1.50e-03	0.0	0.0
16	6	0.0	0.0	-3.24e-04	0.0	0.0	0.0
17	1	0.0	0.0	0.0	0.0	0.0	0.0
17	3	0.0	0.0	0.0	0.0	0.0	0.0
17	5	0.0	0.0	0.0	0.0	0.0	0.0
17	6	0.0	0.0	0.0	0.0	0.0	0.0
18	1	0.0	0.0	-6.20e-04	0.0	0.0	0.0
18	2	0.0	2.32	-6.20e-04	-0.01	0.0	0.0
18	3	0.0	0.0	-4.29e-04	0.0	0.0	0.0
18	4	0.0	1.55	-4.29e-04	-8.79e-03	0.0	0.0
18	5	0.0	0.31	-4.29e-04	-1.76e-03	0.0	0.0
18	6	0.0	0.0	-4.29e-04	0.0	0.0	0.0
19	1	0.0	0.0	-1.34e-04	0.0	0.0	0.0
19	2	0.0	0.06	-1.34e-04	-3.58e-03	0.0	0.0
19	3	0.0	0.0	-9.32e-05	0.0	0.0	0.0
19	4	0.0	0.04	-9.32e-05	-2.38e-03	0.0	0.0
19	5	0.0	7.44e-03	-9.32e-05	-4.77e-04	0.0	0.0
19	6	0.0	0.0	-9.32e-05	0.0	0.0	0.0
20	1	0.0	0.0	-4.68e-04	0.0	0.0	0.0
20	2	0.0	0.94	-4.68e-04	-0.01	0.0	0.0
20	3	0.0	0.0	-3.24e-04	0.0	0.0	0.0
20	4	0.0	0.63	-3.24e-04	-7.51e-03	0.0	0.0
20	5	0.0	0.13	-3.24e-04	-1.50e-03	0.0	0.0
20	6	0.0	0.0	-3.24e-04	0.0	0.0	0.0
21	1	0.0	0.0	0.0	0.0	0.0	0.0
21	3	0.0	0.0	0.0	0.0	0.0	0.0
21	5	0.0	0.0	0.0	0.0	0.0	0.0
21	6	0.0	0.0	0.0	0.0	0.0	0.0
22	1	0.0	0.0	-6.20e-04	0.0	0.0	0.0
22	2	0.0	2.32	-6.20e-04	-0.01	0.0	0.0
22	3	0.0	0.0	-4.29e-04	0.0	0.0	0.0
22	4	0.0	1.55	-4.29e-04	-8.79e-03	0.0	0.0
22	5	0.0	0.31	-4.29e-04	-1.76e-03	0.0	0.0
22	6	0.0	0.0	-4.29e-04	0.0	0.0	0.0
23	1	0.0	0.0	-1.34e-04	0.0	0.0	0.0
23	2	0.0	0.06	-1.34e-04	-3.58e-03	0.0	0.0
23	3	0.0	0.0	-9.32e-05	0.0	0.0	0.0
23	4	0.0	0.04	-9.32e-05	-2.38e-03	0.0	0.0
23	5	0.0	7.44e-03	-9.32e-05	-4.77e-04	0.0	0.0

23	6	0.0	0.0	-9.32e-05	0.0	0.0	0.0
24	1	0.0	0.0	-4.68e-04	0.0	0.0	0.0
24	2	0.0	0.94	-4.68e-04	-0.01	0.0	0.0
24	3	0.0	0.0	-3.24e-04	0.0	0.0	0.0
24	4	0.0	0.63	-3.24e-04	-7.51e-03	0.0	0.0
24	5	0.0	0.13	-3.24e-04	-1.50e-03	0.0	0.0
24	6	0.0	0.0	-3.24e-04	0.0	0.0	0.0

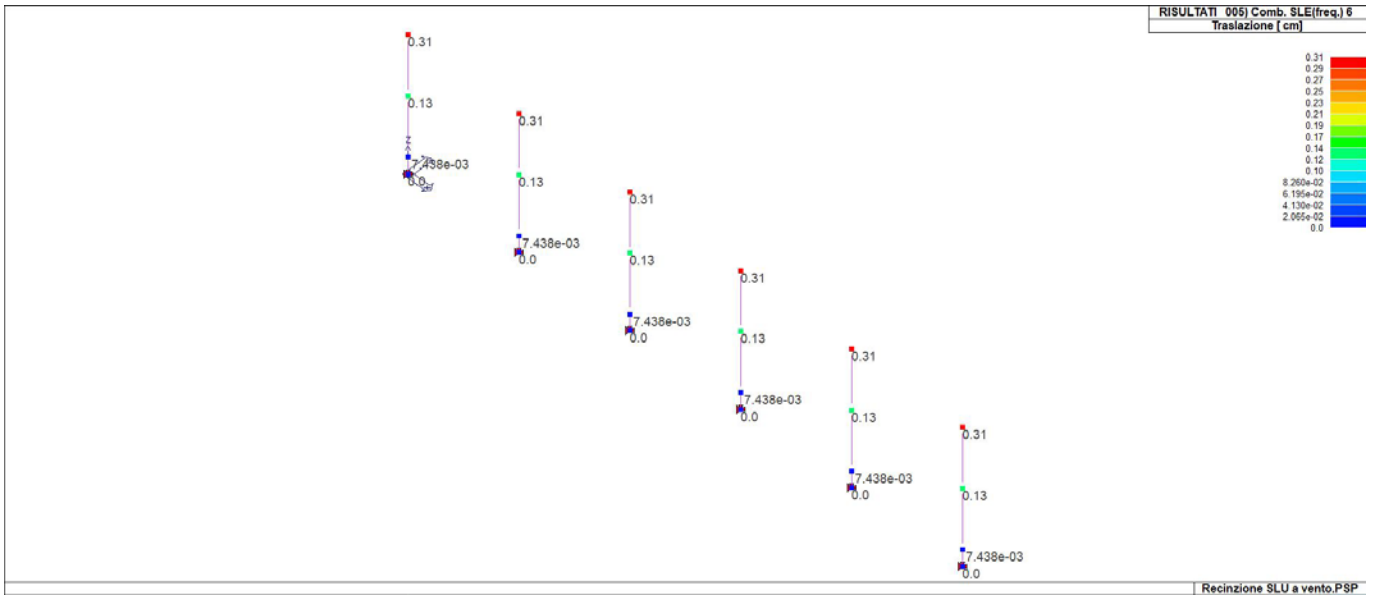
Nodo	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
	0.0	0.0	-6.20e-04	-0.01	0.0	0.0
	0.0	2.32	0.0	0.0	0.0	0.0



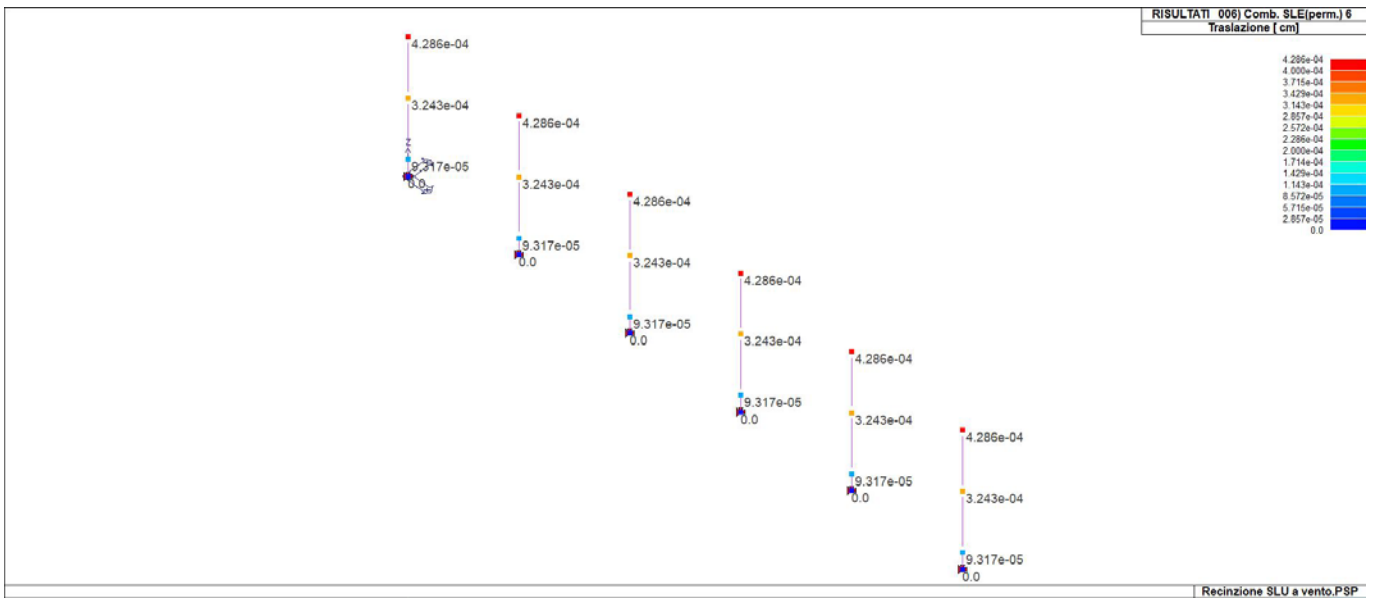
41_RIS_SPOSTAMENTI_002_Comb. SLU A1 2



41_RIS_SPOSTAMENTI_004_Comb. SLE(rara) 4



41_RIS_SPOSTAMENTI_005_Comb. SLE(freq.) 6



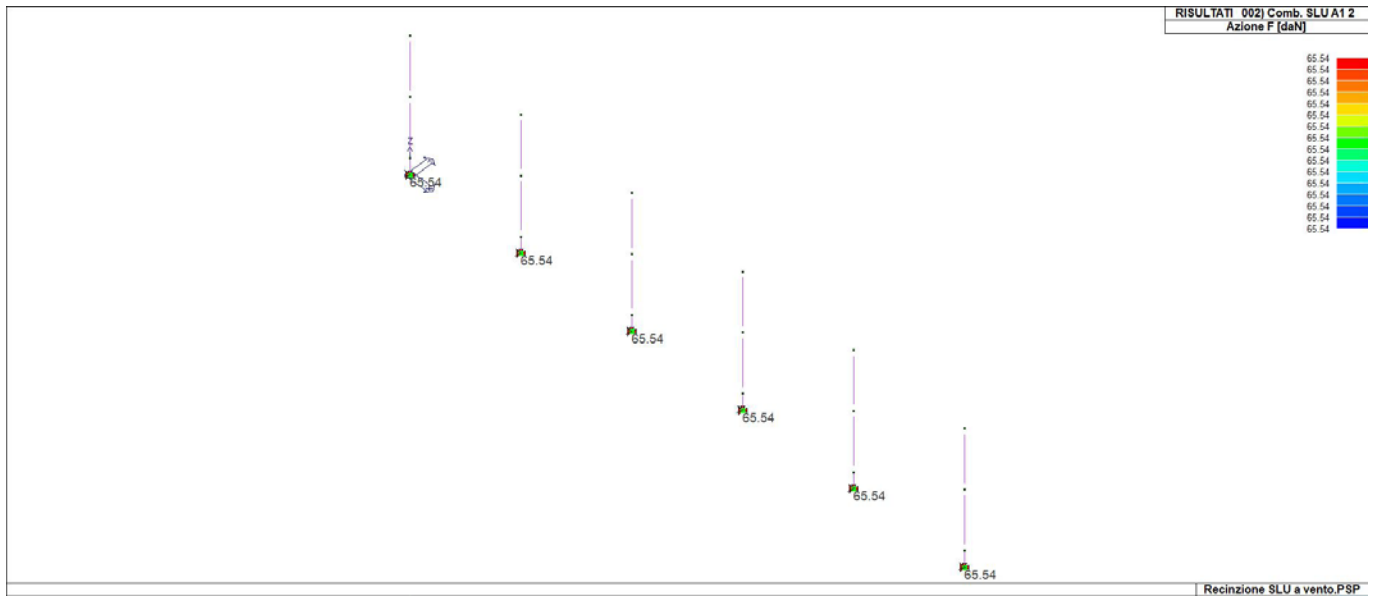
41_RIS_SPOSTAMENTI_006_Comb. SLE(perm.) 6

Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
1	1	0.0	0.0	-42.95	0.0	0.0	0.0
1	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
1	3	0.0	0.0	-29.81	0.0	0.0	0.0
1	4	0.0	33.00	-29.81	-4620.00	0.0	0.0
1	5	0.0	6.60	-29.81	-924.00	0.0	0.0
1	6	0.0	0.0	-29.81	0.0	0.0	0.0
4	1	0.0	0.0	-42.95	0.0	0.0	0.0
4	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
4	3	0.0	0.0	-29.81	0.0	0.0	0.0
4	4	0.0	33.00	-29.81	-4620.00	0.0	0.0
4	5	0.0	6.60	-29.81	-924.00	0.0	0.0
4	6	0.0	0.0	-29.81	0.0	0.0	0.0

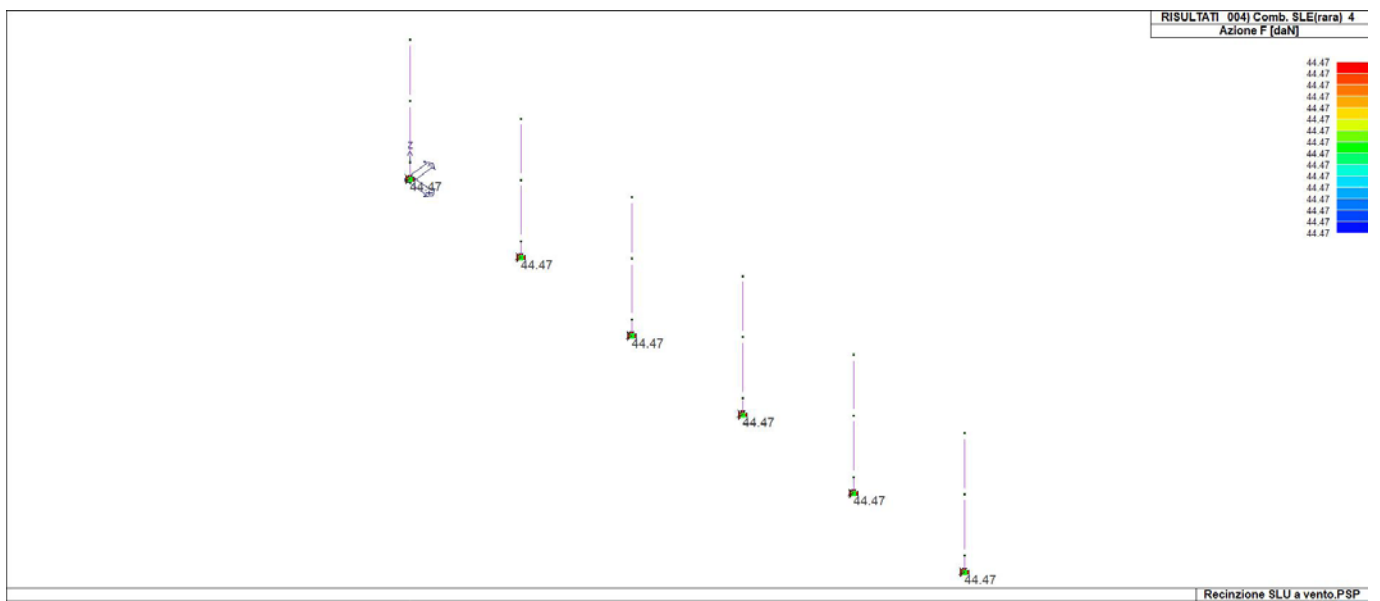
8	1	0.0	0.0	-42.95	0.0	0.0	0.0
8	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
8	3	0.0	0.0	-29.81	0.0	0.0	0.0
8	4	0.0	33.00	-29.81	-4620.00	0.0	0.0
8	5	0.0	6.60	-29.81	-924.00	0.0	0.0
8	6	0.0	0.0	-29.81	0.0	0.0	0.0
9	1	0.0	0.0	-42.95	0.0	0.0	0.0
9	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
9	3	0.0	0.0	-29.81	0.0	0.0	0.0
9	4	0.0	33.00	-29.81	-4620.00	0.0	0.0
9	5	0.0	6.60	-29.81	-924.00	0.0	0.0
9	6	0.0	0.0	-29.81	0.0	0.0	0.0
17	1	0.0	0.0	-42.95	0.0	0.0	0.0
17	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
17	3	0.0	0.0	-29.81	0.0	0.0	0.0
17	4	0.0	33.00	-29.81	-4620.00	0.0	0.0
17	5	0.0	6.60	-29.81	-924.00	0.0	0.0
17	6	0.0	0.0	-29.81	0.0	0.0	0.0
21	1	0.0	0.0	-42.95	0.0	0.0	0.0
21	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
21	3	0.0	0.0	-29.81	0.0	0.0	0.0
21	4	0.0	33.00	-29.81	-4620.00	0.0	0.0
21	5	0.0	6.60	-29.81	-924.00	0.0	0.0
21	6	0.0	0.0	-29.81	0.0	0.0	0.0

Nodo	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	0.0	0.0	-42.95	-6930.00	0.0	0.0
	0.0	49.50	-29.81	0.0	0.0	0.0

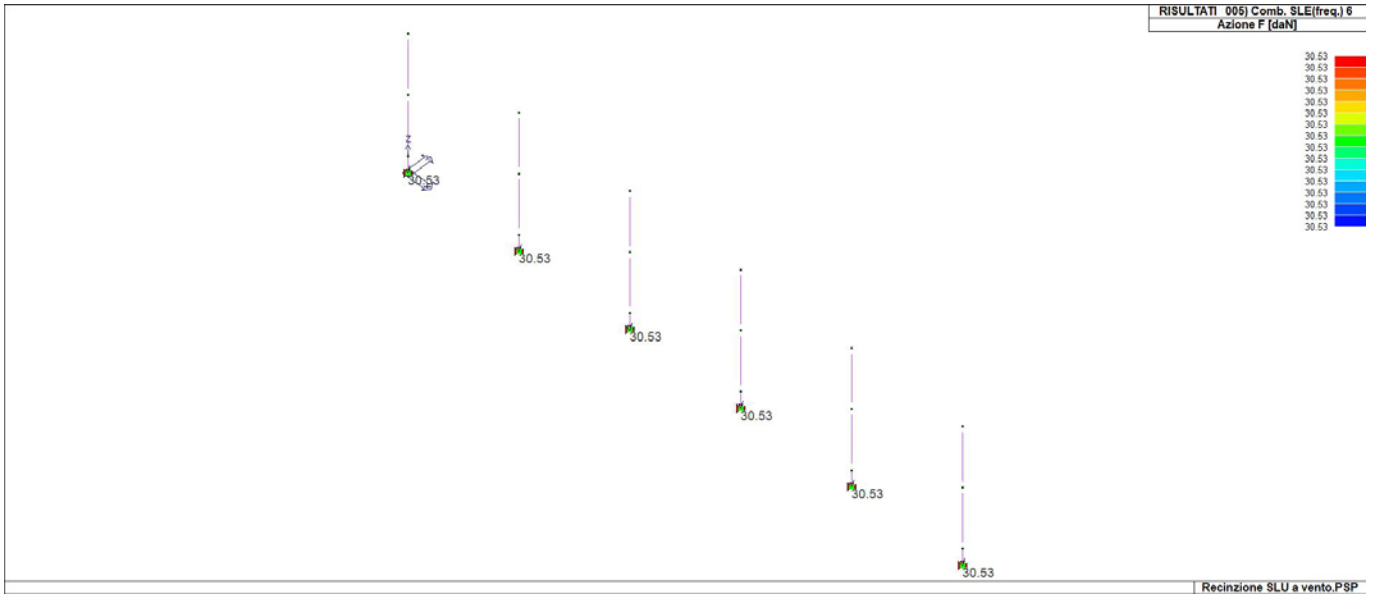
Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
1	1	0.0	0.0	-42.95	0.0	0.0	0.0
	3	0.0	0.0	-29.81	0.0	0.0	0.0
	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
4	1	0.0	0.0	-42.95	0.0	0.0	0.0
	3	0.0	0.0	-29.81	0.0	0.0	0.0
	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
8	1	0.0	0.0	-42.95	0.0	0.0	0.0
	3	0.0	0.0	-29.81	0.0	0.0	0.0
	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
9	1	0.0	0.0	-42.95	0.0	0.0	0.0
	3	0.0	0.0	-29.81	0.0	0.0	0.0
	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
17	1	0.0	0.0	-42.95	0.0	0.0	0.0
	3	0.0	0.0	-29.81	0.0	0.0	0.0
	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
21	1	0.0	0.0	-42.95	0.0	0.0	0.0
	3	0.0	0.0	-29.81	0.0	0.0	0.0
	2	0.0	49.50	-42.95	-6930.00	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0
	1	0.0	0.0	-42.95	0.0	0.0	0.0



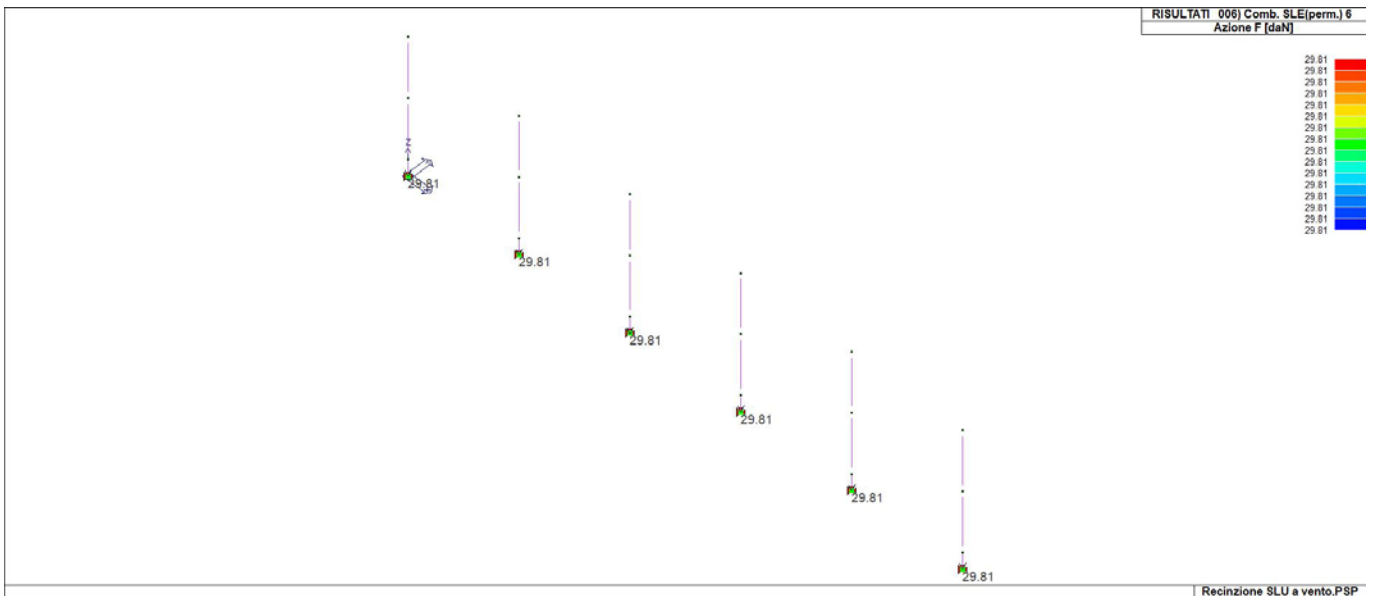
42_RIS_REAZIONI_002_Comb. SLU A1 2



42_RIS_REAZIONI_004_Comb. SLE(rara) 4



42_RIS_REAZIONI_005_Comb. SLE(freq.) 6



42_RIS_REAZIONI_006_Comb. SLE(perm.) 6

RISULTATI ELEMENTI TIPO TRAVE

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 **pilastr**
- tipo **trave in elevazione**
- tipo **trave in fondazione**

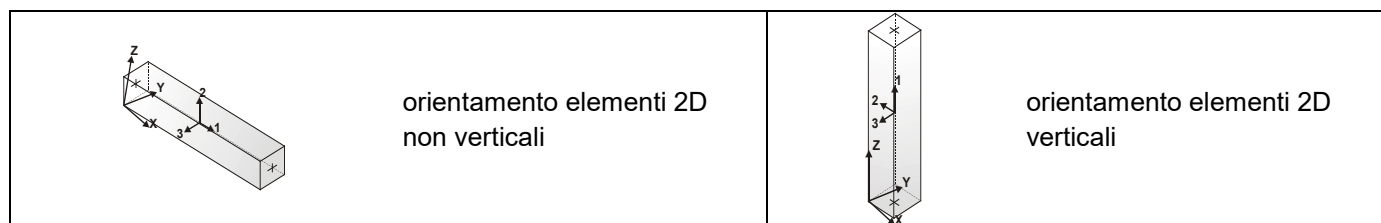
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

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

Pilas.	numero dell'elemento pilastr
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.



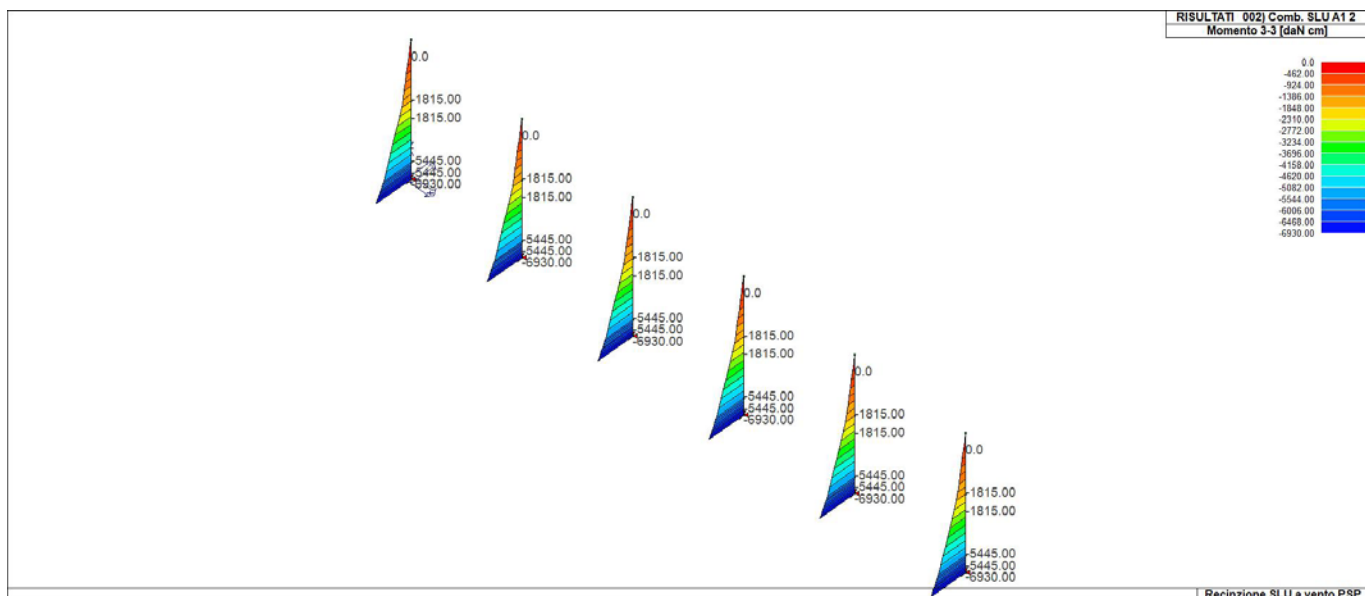
Pilas.	Cmb	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	Pos.	N	V 2	V 3	T	M 2	M 3
		daN cm	daN cm									
1	1	0.0	0.0	0.0	0.0	0.0	-42.95	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-41.58	0.0	0.0	0.0	0.0	0.0
1	2	-5445.00	0.0	-0.06	0.0	0.0	-42.95	49.50	0.0	0.0	0.0	-6930.00
		-6930.00	0.0	0.0	0.0	30.0	-41.58	49.50	0.0	0.0	0.0	-5445.00
1	3	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
1	4	-3630.00	0.0	-0.04	0.0	0.0	-29.81	33.00	0.0	0.0	0.0	-4620.00
		-4620.00	0.0	0.0	0.0	30.0	-28.75	33.00	0.0	0.0	0.0	-3630.00
1	5	-726.00	0.0	-7.44e-03	0.0	0.0	-29.81	6.60	0.0	0.0	0.0	-924.00
		-924.00	0.0	0.0	0.0	30.0	-28.75	6.60	0.0	0.0	0.0	-726.00
1	6	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
2	1	0.0	0.0	0.0	0.0	0.0	-15.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-10.50	0.0	0.0	0.0	0.0	0.0
2	2	0.0	0.0	-1.38	0.0	0.0	-15.54	16.50	0.0	0.0	0.0	-1815.00
		-1815.00	0.0	0.0	0.0	110.0	-10.50	16.50	0.0	0.0	0.0	0.0
2	3	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
2	4	0.0	0.0	-0.92	0.0	0.0	-10.88	11.00	0.0	0.0	0.0	-1210.00
		-1210.00	0.0	0.0	0.0	110.0	-7.00	11.00	0.0	0.0	0.0	0.0
2	5	0.0	0.0	-0.18	0.0	0.0	-10.88	2.20	0.0	0.0	0.0	-242.00

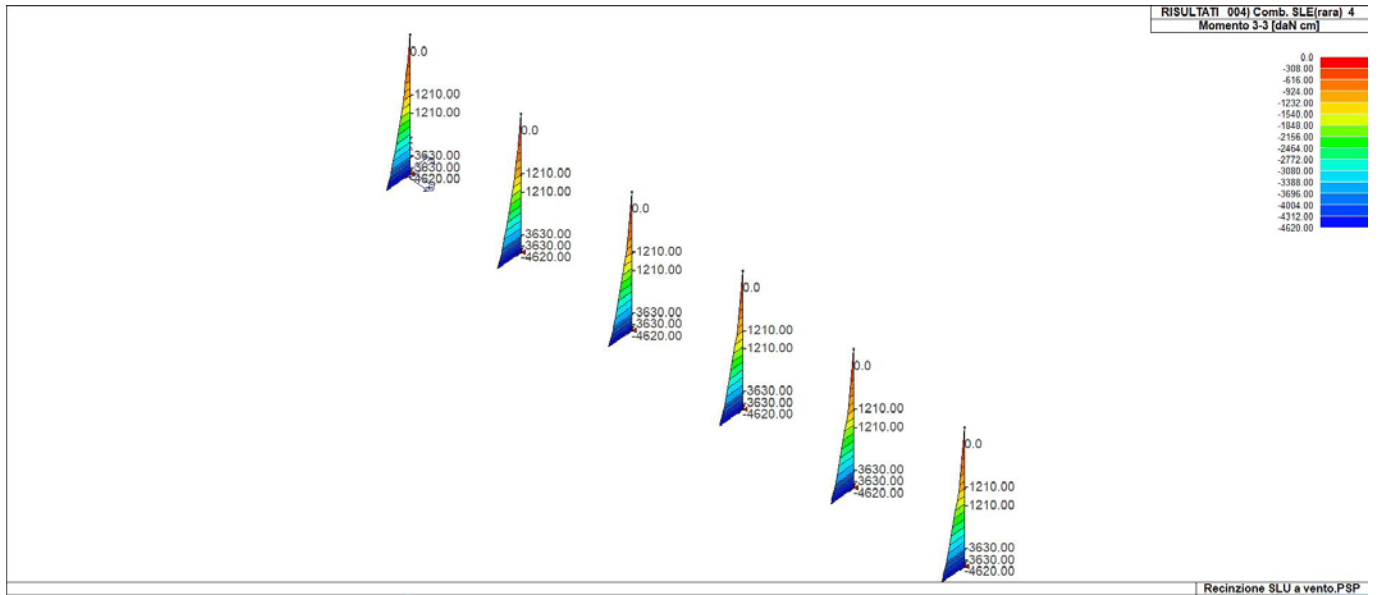
2	6	-242.00	0.0	0.0	0.0	110.0	-7.00	2.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
3	1	0.0	0.0	0.0	0.0	0.0	-31.08	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-26.04	0.0	0.0	0.0	0.0	0.0
3	2	-1815.00	0.0	-0.89	0.0	0.0	-31.08	33.00	0.0	0.0	0.0	-5445.00
		-5445.00	0.0	0.0	0.0	110.0	-26.04	33.00	0.0	0.0	0.0	-1815.00
3	3	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
3	4	-1210.00	0.0	-0.59	0.0	0.0	-21.75	22.00	0.0	0.0	0.0	-3630.00
		-3630.00	0.0	0.0	0.0	110.0	-17.88	22.00	0.0	0.0	0.0	-1210.00
3	5	-242.00	0.0	-0.12	0.0	0.0	-21.75	4.40	0.0	0.0	0.0	-726.00
		-726.00	0.0	0.0	0.0	110.0	-17.88	4.40	0.0	0.0	0.0	-242.00
3	6	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
4	1	0.0	0.0	0.0	0.0	0.0	-42.95	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-41.58	0.0	0.0	0.0	0.0	0.0
4	2	-5445.00	0.0	-0.06	0.0	0.0	-42.95	49.50	0.0	0.0	0.0	-6930.00
		-6930.00	0.0	0.0	0.0	30.0	-41.58	49.50	0.0	0.0	0.0	-5445.00
4	3	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
4	4	-3630.00	0.0	-0.04	0.0	0.0	-29.81	33.00	0.0	0.0	0.0	-4620.00
		-4620.00	0.0	0.0	0.0	30.0	-28.75	33.00	0.0	0.0	0.0	-3630.00
4	5	-726.00	0.0	-7.44e-03	0.0	0.0	-29.81	6.60	0.0	0.0	0.0	-924.00
		-924.00	0.0	0.0	0.0	30.0	-28.75	6.60	0.0	0.0	0.0	-726.00
4	6	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
5	1	0.0	0.0	0.0	0.0	0.0	-42.95	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-41.58	0.0	0.0	0.0	0.0	0.0
5	2	-5445.00	0.0	-0.06	0.0	0.0	-42.95	49.50	0.0	0.0	0.0	-6930.00
		-6930.00	0.0	0.0	0.0	30.0	-41.58	49.50	0.0	0.0	0.0	-5445.00
5	3	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
5	4	-3630.00	0.0	-0.04	0.0	0.0	-29.81	33.00	0.0	0.0	0.0	-4620.00
		-4620.00	0.0	0.0	0.0	30.0	-28.75	33.00	0.0	0.0	0.0	-3630.00
5	5	-726.00	0.0	-7.44e-03	0.0	0.0	-29.81	6.60	0.0	0.0	0.0	-924.00
		-924.00	0.0	0.0	0.0	30.0	-28.75	6.60	0.0	0.0	0.0	-726.00
5	6	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
6	1	0.0	0.0	0.0	0.0	0.0	-15.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-10.50	0.0	0.0	0.0	0.0	0.0
6	2	0.0	0.0	-1.38	0.0	0.0	-15.54	16.50	0.0	0.0	0.0	-1815.00
		-1815.00	0.0	0.0	0.0	110.0	-10.50	16.50	0.0	0.0	0.0	0.0
6	3	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
6	4	0.0	0.0	-0.92	0.0	0.0	-10.88	11.00	0.0	0.0	0.0	-1210.00
		-1210.00	0.0	0.0	0.0	110.0	-7.00	11.00	0.0	0.0	0.0	0.0
6	5	0.0	0.0	-0.18	0.0	0.0	-10.88	2.20	0.0	0.0	0.0	-242.00
		-242.00	0.0	0.0	0.0	110.0	-7.00	2.20	0.0	0.0	0.0	0.0
6	6	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
7	1	0.0	0.0	0.0	0.0	0.0	-15.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-10.50	0.0	0.0	0.0	0.0	0.0
7	2	0.0	0.0	-1.38	0.0	0.0	-15.54	16.50	0.0	0.0	0.0	-1815.00
		-1815.00	0.0	0.0	0.0	110.0	-10.50	16.50	0.0	0.0	0.0	0.0
7	3	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
7	4	0.0	0.0	-0.92	0.0	0.0	-10.88	11.00	0.0	0.0	0.0	-1210.00
		-1210.00	0.0	0.0	0.0	110.0	-7.00	11.00	0.0	0.0	0.0	0.0
7	5	0.0	0.0	-0.18	0.0	0.0	-10.88	2.20	0.0	0.0	0.0	-242.00
		-242.00	0.0	0.0	0.0	110.0	-7.00	2.20	0.0	0.0	0.0	0.0
7	6	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
8	1	0.0	0.0	0.0	0.0	0.0	-31.08	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-26.04	0.0	0.0	0.0	0.0	0.0
8	2	-1815.00	0.0	-0.89	0.0	0.0	-31.08	33.00	0.0	0.0	0.0	-5445.00
		-5445.00	0.0	0.0	0.0	110.0	-26.04	33.00	0.0	0.0	0.0	-1815.00
8	3	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
8	4	-1210.00	0.0	-0.59	0.0	0.0	-21.75	22.00	0.0	0.0	0.0	-3630.00
		-3630.00	0.0	0.0	0.0	110.0	-17.88	22.00	0.0	0.0	0.0	-1210.00
8	5	-242.00	0.0	-0.12	0.0	0.0	-21.75	4.40	0.0	0.0	0.0	-726.00
		-726.00	0.0	0.0	0.0	110.0	-17.88	4.40	0.0	0.0	0.0	-242.00
8	6	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
9	1	0.0	0.0	0.0	0.0	0.0	-31.08	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-26.04	0.0	0.0	0.0	0.0	0.0

9	2	-1815.00	0.0	-0.89	0.0	0.0	-31.08	33.00	0.0	0.0	0.0	-5445.00
		-5445.00	0.0	0.0	0.0	110.0	-26.04	33.00	0.0	0.0	0.0	-1815.00
9	3	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
9	4	-1210.00	0.0	-0.59	0.0	0.0	-21.75	22.00	0.0	0.0	0.0	-3630.00
		-3630.00	0.0	0.0	0.0	110.0	-17.88	22.00	0.0	0.0	0.0	-1210.00
9	5	-242.00	0.0	-0.12	0.0	0.0	-21.75	4.40	0.0	0.0	0.0	-726.00
		-726.00	0.0	0.0	0.0	110.0	-17.88	4.40	0.0	0.0	0.0	-242.00
9	6	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
10	1	0.0	0.0	0.0	0.0	0.0	-15.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-10.50	0.0	0.0	0.0	0.0	0.0
10	2	0.0	0.0	-1.38	0.0	0.0	-15.54	16.50	0.0	0.0	0.0	-1815.00
		-1815.00	0.0	0.0	0.0	110.0	-10.50	16.50	0.0	0.0	0.0	0.0
10	3	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
10	4	0.0	0.0	-0.92	0.0	0.0	-10.88	11.00	0.0	0.0	0.0	-1210.00
		-1210.00	0.0	0.0	0.0	110.0	-7.00	11.00	0.0	0.0	0.0	0.0
10	5	0.0	0.0	-0.18	0.0	0.0	-10.88	2.20	0.0	0.0	0.0	-242.00
		-242.00	0.0	0.0	0.0	110.0	-7.00	2.20	0.0	0.0	0.0	0.0
10	6	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
11	1	0.0	0.0	0.0	0.0	0.0	-31.08	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-26.04	0.0	0.0	0.0	0.0	0.0
11	2	-1815.00	0.0	-0.89	0.0	0.0	-31.08	33.00	0.0	0.0	0.0	-5445.00
		-5445.00	0.0	0.0	0.0	110.0	-26.04	33.00	0.0	0.0	0.0	-1815.00
11	3	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
11	4	-1210.00	0.0	-0.59	0.0	0.0	-21.75	22.00	0.0	0.0	0.0	-3630.00
		-3630.00	0.0	0.0	0.0	110.0	-17.88	22.00	0.0	0.0	0.0	-1210.00
11	5	-242.00	0.0	-0.12	0.0	0.0	-21.75	4.40	0.0	0.0	0.0	-726.00
		-726.00	0.0	0.0	0.0	110.0	-17.88	4.40	0.0	0.0	0.0	-242.00
11	6	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
12	1	0.0	0.0	0.0	0.0	0.0	-42.95	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-41.58	0.0	0.0	0.0	0.0	0.0
12	2	-5445.00	0.0	-0.06	0.0	0.0	-42.95	49.50	0.0	0.0	0.0	-6930.00
		-6930.00	0.0	0.0	0.0	30.0	-41.58	49.50	0.0	0.0	0.0	-5445.00
12	3	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
12	4	-3630.00	0.0	-0.04	0.0	0.0	-29.81	33.00	0.0	0.0	0.0	-4620.00
		-4620.00	0.0	0.0	0.0	30.0	-28.75	33.00	0.0	0.0	0.0	-3630.00
12	5	-726.00	0.0	-7.44e-03	0.0	0.0	-29.81	6.60	0.0	0.0	0.0	-924.00
		-924.00	0.0	0.0	0.0	30.0	-28.75	6.60	0.0	0.0	0.0	-726.00
12	6	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
13	1	0.0	0.0	0.0	0.0	0.0	-15.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-10.50	0.0	0.0	0.0	0.0	0.0
13	2	0.0	0.0	-1.38	0.0	0.0	-15.54	16.50	0.0	0.0	0.0	-1815.00
		-1815.00	0.0	0.0	0.0	110.0	-10.50	16.50	0.0	0.0	0.0	0.0
13	3	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
13	4	0.0	0.0	-0.92	0.0	0.0	-10.88	11.00	0.0	0.0	0.0	-1210.00
		-1210.00	0.0	0.0	0.0	110.0	-7.00	11.00	0.0	0.0	0.0	0.0
13	5	0.0	0.0	-0.18	0.0	0.0	-10.88	2.20	0.0	0.0	0.0	-242.00
		-242.00	0.0	0.0	0.0	110.0	-7.00	2.20	0.0	0.0	0.0	0.0
13	6	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
14	1	0.0	0.0	0.0	0.0	0.0	-31.08	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-26.04	0.0	0.0	0.0	0.0	0.0
14	2	-1815.00	0.0	-0.89	0.0	0.0	-31.08	33.00	0.0	0.0	0.0	-5445.00
		-5445.00	0.0	0.0	0.0	110.0	-26.04	33.00	0.0	0.0	0.0	-1815.00
14	3	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
14	4	-1210.00	0.0	-0.59	0.0	0.0	-21.75	22.00	0.0	0.0	0.0	-3630.00
		-3630.00	0.0	0.0	0.0	110.0	-17.88	22.00	0.0	0.0	0.0	-1210.00
14	5	-242.00	0.0	-0.12	0.0	0.0	-21.75	4.40	0.0	0.0	0.0	-726.00
		-726.00	0.0	0.0	0.0	110.0	-17.88	4.40	0.0	0.0	0.0	-242.00
14	6	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
15	1	0.0	0.0	0.0	0.0	0.0	-42.95	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-41.58	0.0	0.0	0.0	0.0	0.0
15	2	-5445.00	0.0	-0.06	0.0	0.0	-42.95	49.50	0.0	0.0	0.0	-6930.00
		-6930.00	0.0	0.0	0.0	30.0	-41.58	49.50	0.0	0.0	0.0	-5445.00
15	3	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
15	4	-3630.00	0.0	-0.04	0.0	0.0	-29.81	33.00	0.0	0.0	0.0	-4620.00

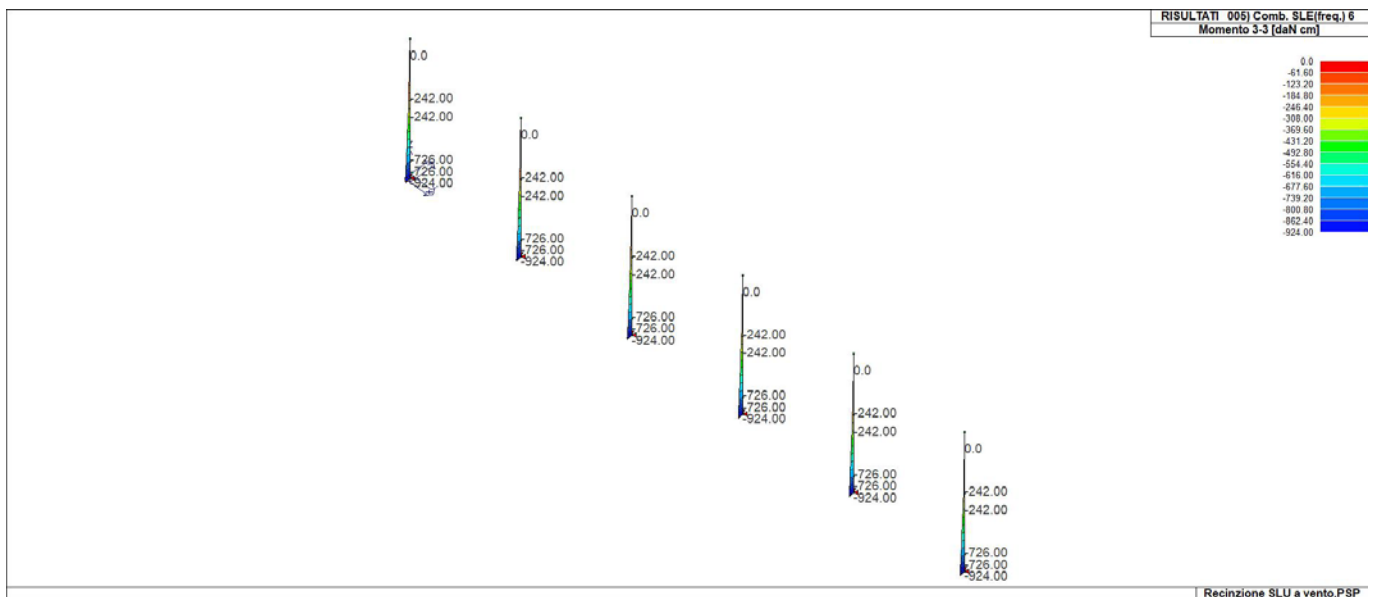
15	5	-4620.00	0.0	0.0	0.0	30.0	-28.75	33.00	0.0	0.0	0.0	-3630.00
		-726.00	0.0	-7.44e-03	0.0	0.0	-29.81	6.60	0.0	0.0	0.0	-924.00
		-924.00	0.0	0.0	0.0	30.0	-28.75	6.60	0.0	0.0	0.0	-726.00
15	6	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
16	1	0.0	0.0	0.0	0.0	0.0	-15.54	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-10.50	0.0	0.0	0.0	0.0	0.0
16	2	0.0	0.0	-1.38	0.0	0.0	-15.54	16.50	0.0	0.0	0.0	-1815.00
		-1815.00	0.0	0.0	0.0	110.0	-10.50	16.50	0.0	0.0	0.0	0.0
16	3	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
16	4	0.0	0.0	-0.92	0.0	0.0	-10.88	11.00	0.0	0.0	0.0	-1210.00
		-1210.00	0.0	0.0	0.0	110.0	-7.00	11.00	0.0	0.0	0.0	0.0
16	5	0.0	0.0	-0.18	0.0	0.0	-10.88	2.20	0.0	0.0	0.0	-242.00
		-242.00	0.0	0.0	0.0	110.0	-7.00	2.20	0.0	0.0	0.0	0.0
16	6	0.0	0.0	0.0	0.0	0.0	-10.88	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-7.00	0.0	0.0	0.0	0.0	0.0
17	1	0.0	0.0	0.0	0.0	0.0	-31.08	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-26.04	0.0	0.0	0.0	0.0	0.0
17	2	-1815.00	0.0	-0.89	0.0	0.0	-31.08	33.00	0.0	0.0	0.0	-5445.00
		-5445.00	0.0	0.0	0.0	110.0	-26.04	33.00	0.0	0.0	0.0	-1815.00
17	3	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
17	4	-1210.00	0.0	-0.59	0.0	0.0	-21.75	22.00	0.0	0.0	0.0	-3630.00
		-3630.00	0.0	0.0	0.0	110.0	-17.88	22.00	0.0	0.0	0.0	-1210.00
17	5	-242.00	0.0	-0.12	0.0	0.0	-21.75	4.40	0.0	0.0	0.0	-726.00
		-726.00	0.0	0.0	0.0	110.0	-17.88	4.40	0.0	0.0	0.0	-242.00
17	6	0.0	0.0	0.0	0.0	0.0	-21.75	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	110.0	-17.88	0.0	0.0	0.0	0.0	0.0
18	1	0.0	0.0	0.0	0.0	0.0	-42.95	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-41.58	0.0	0.0	0.0	0.0	0.0
18	2	-5445.00	0.0	-0.06	0.0	0.0	-42.95	49.50	0.0	0.0	0.0	-6930.00
		-6930.00	0.0	0.0	0.0	30.0	-41.58	49.50	0.0	0.0	0.0	-5445.00
18	3	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0
18	4	-3630.00	0.0	-0.04	0.0	0.0	-29.81	33.00	0.0	0.0	0.0	-4620.00
		-4620.00	0.0	0.0	0.0	30.0	-28.75	33.00	0.0	0.0	0.0	-3630.00
18	5	-726.00	0.0	-7.44e-03	0.0	0.0	-29.81	6.60	0.0	0.0	0.0	-924.00
		-924.00	0.0	0.0	0.0	30.0	-28.75	6.60	0.0	0.0	0.0	-726.00
18	6	0.0	0.0	0.0	0.0	0.0	-29.81	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	30.0	-28.75	0.0	0.0	0.0	0.0	0.0

Pilas.	M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T
	-6930.00	0.0	-1.38	0.0	-42.95	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	-7.00	49.50	0.0	0.0

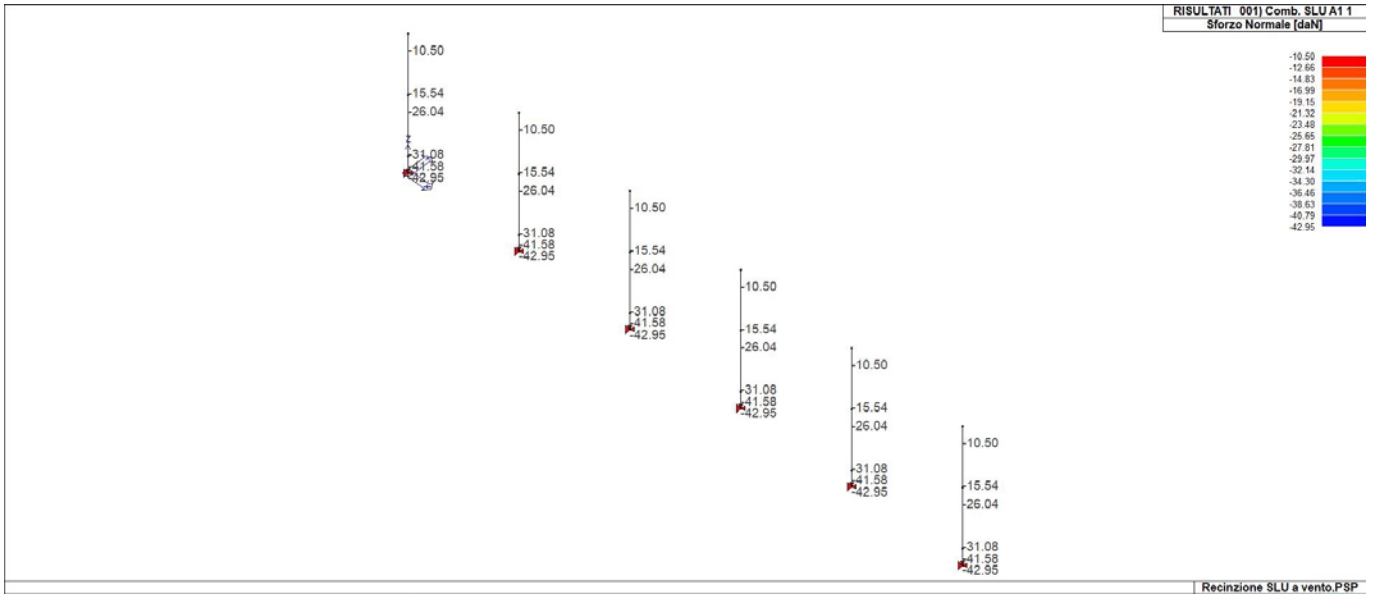




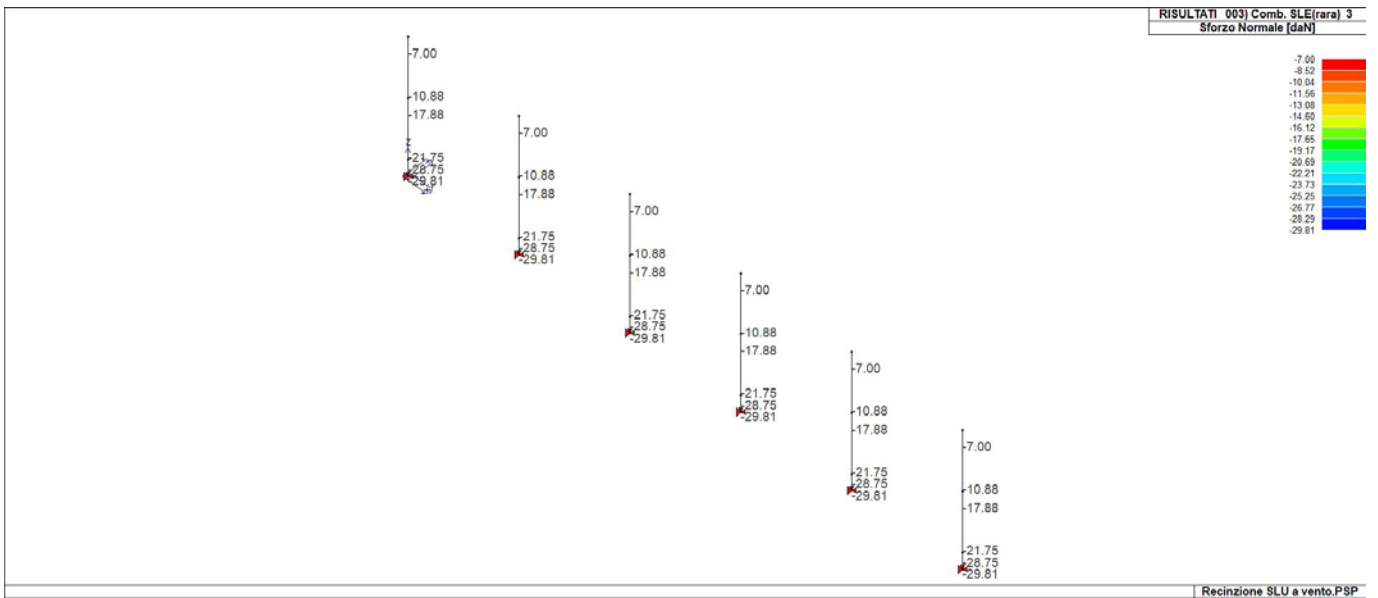
43_RIS_M3_004_Comb. SLE(rara) 4



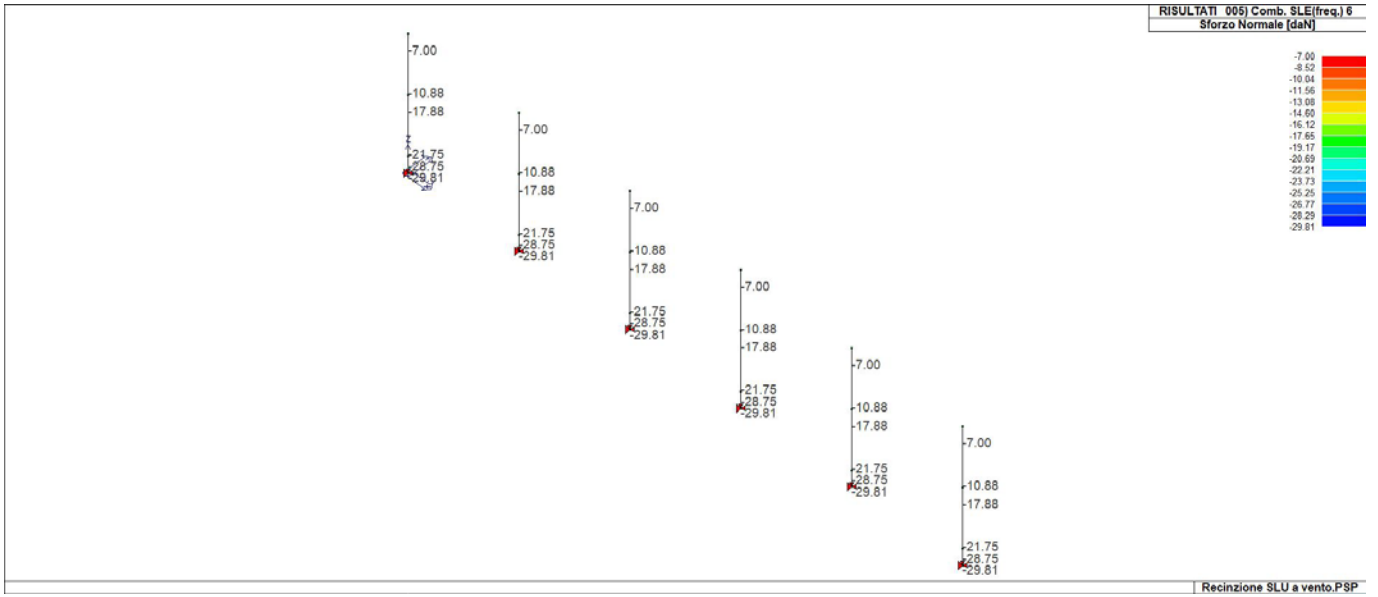
43_RIS_M3_005_Comb. SLE(freq.) 6



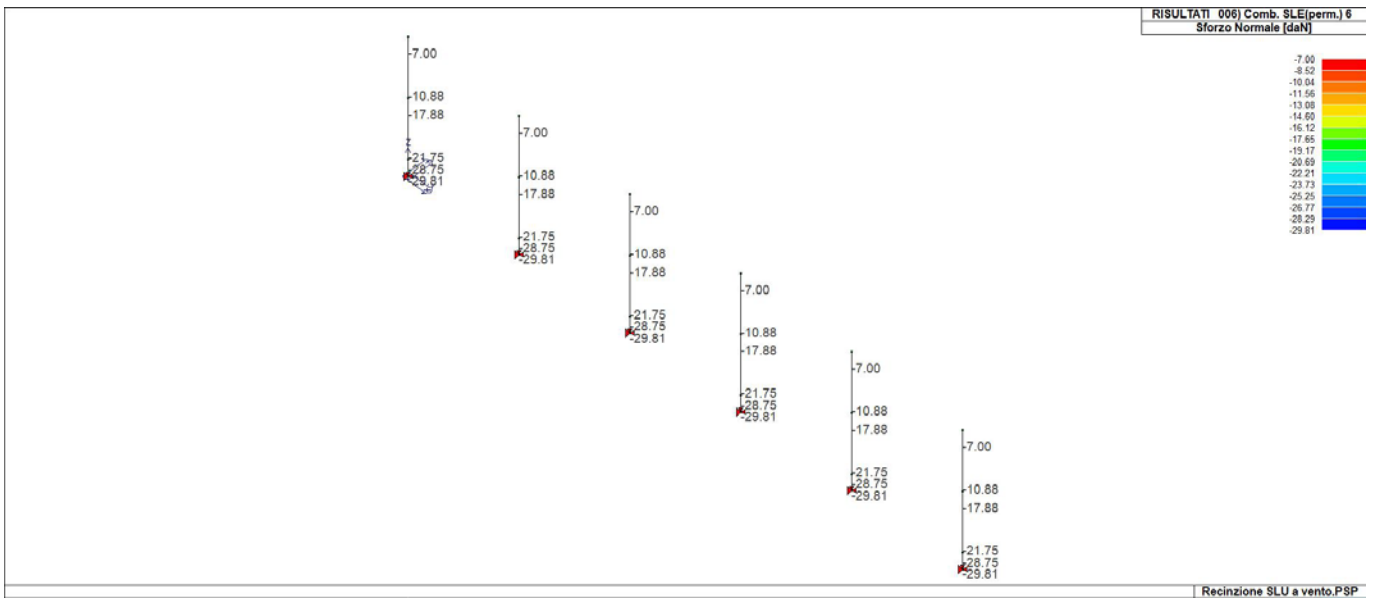
43_RIS_N_001_Comb. SLU A1 1



43_RIS_N_003_Comb. SLE(rara) 3



43_RIS_N_005_Comb. SLE(freq.) 6



43_RIS_N_006_Comb. SLE(perm.) 6

VERIFICHE PER ELEMENTI IN ACCIAIO

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 flessio-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 flessio-torsionale	X	X
4.2.4.1.3.3 Membrature inflesse e compresse	X	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

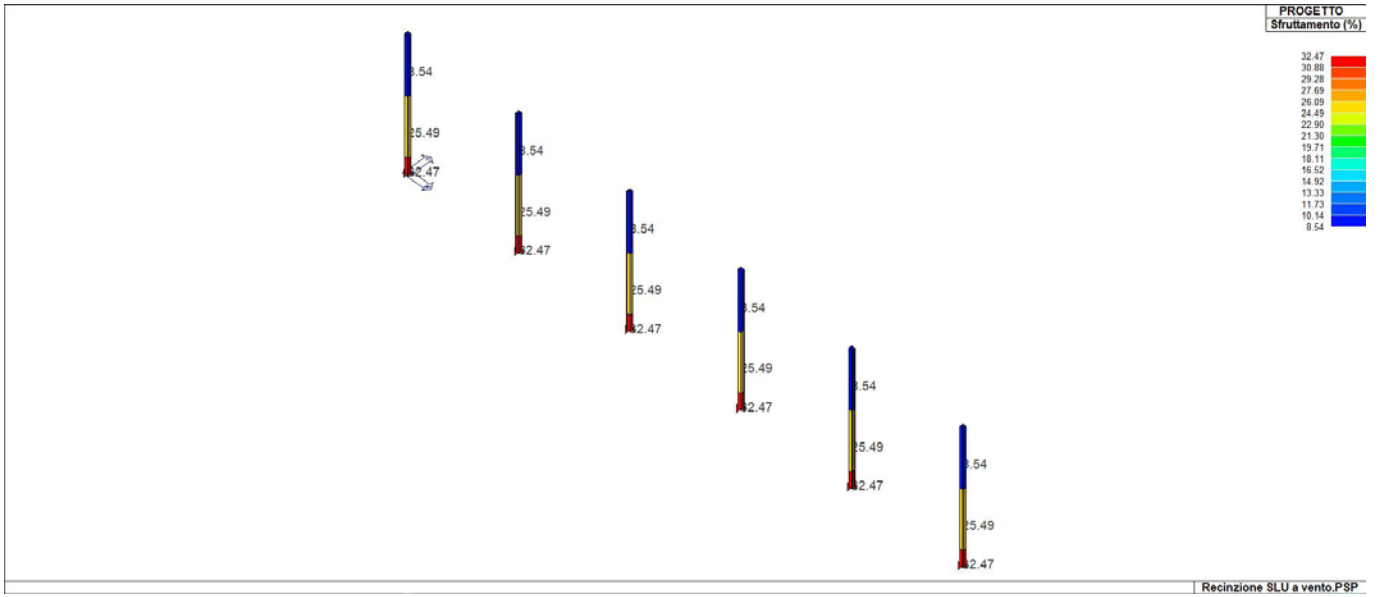
Viene inoltre riportata la verifica della "Gerarchia delle resistenze trave-colonna" per ogni colonna, considerando piede e testa in entrambe le direzioni globali X e Y.

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

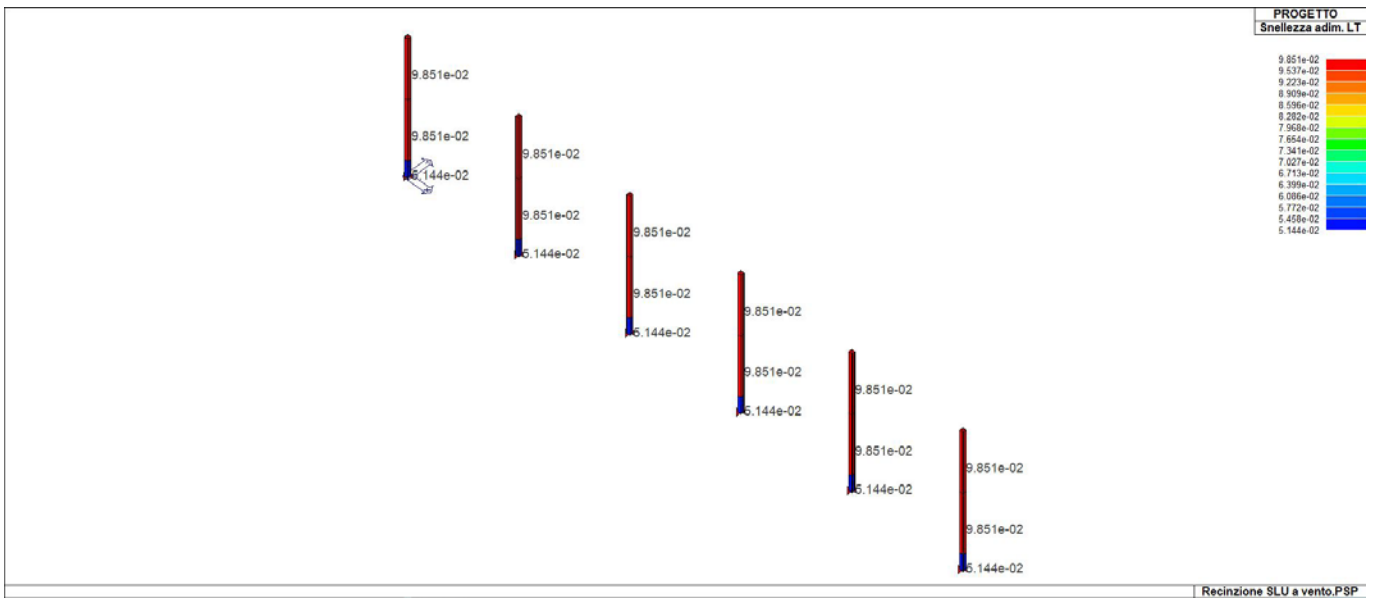
Azione	SEZIONI GENERICHE	PROFILI SEMPLICI	PROFILI ACCOPPIATI
4.2.3.1 Classificazione automatica	L, doppio T, C, rettangolare cava, circolare cava	Tutti	Da profilo semplice
4.2.3.1 Classificazione di default 2	Circolare		
4.2.3.1 Classificazione di default 3	restanti		
4.2.4.1.2.1 Trazione	si	si	si
4.2.4.1.2.2 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	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.

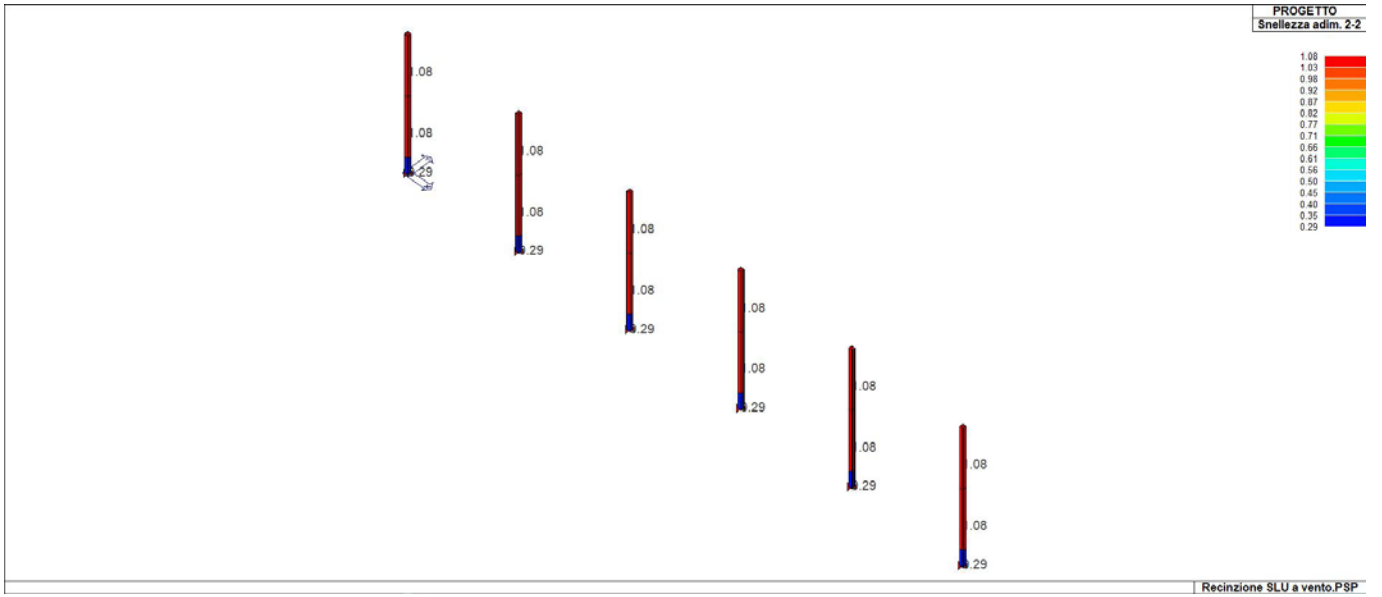
Asta	Trave	Pilastro	numero dell'elemento			
	Stato		codice di verifica per resistenza, stabilità, svergolamento			
	Note		sezione e materiali adottati per l'elemento			
	V N		(ASTE) verifica come da par. 4.2.4.1.2 per punto (4.2.6) e (4.2.10)			
	V V/T		(TRAVI E PILASTRI) verifica di resistenza come 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 flesso-torsionale)
Beta_{xL}	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 flesso-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 x Omega x 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 x Omega x 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 sovreresistenza come prevista al par. 7.5.4.2 (i valori non sono normalizzati pertanto saranno maggiori uguali a gamma rd in base alla classe di duttilità)



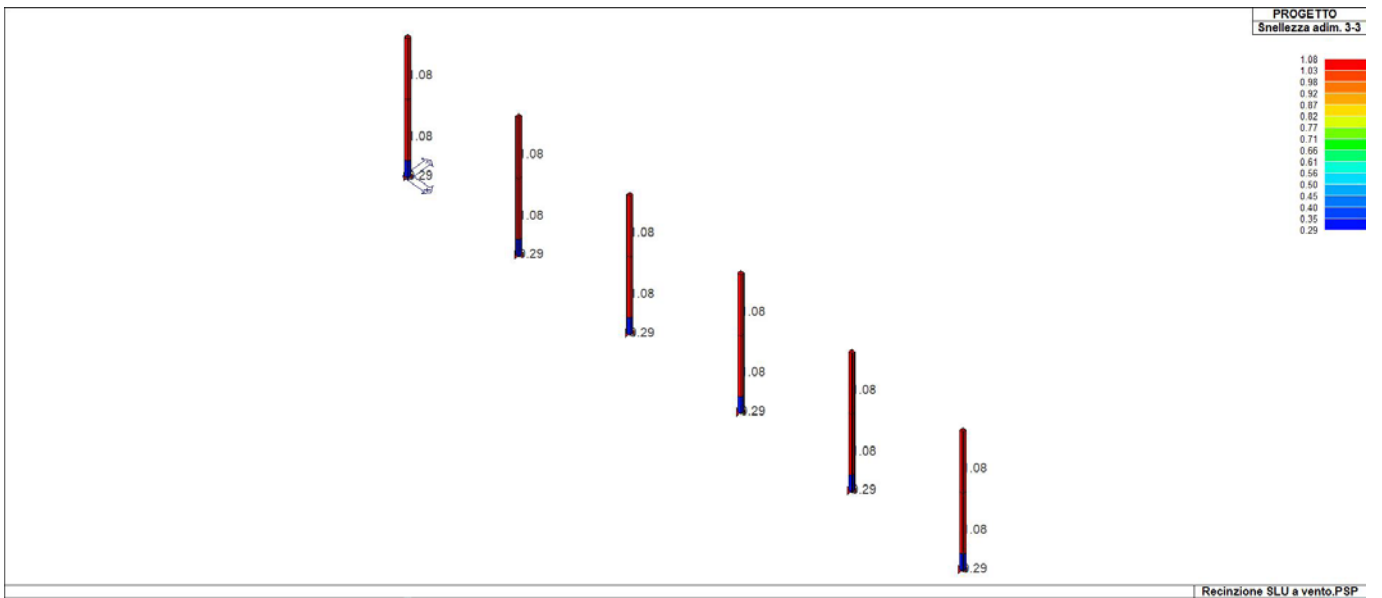
73_PRO_ST_SFRUTTAMENTO



73_PRO_ST_SNELLEZZATOR



73_PRO_ST_SNELLEZZAXX



73_PRO_ST_SNELLEZZAYY



Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 17 Gennaio 2018 cap. 10 “Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo”.

Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2021-12-194)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it
Codice Licenza:	Licenza dsi5815

Descrizione	
Progetto	CALCOLO E VERIFICA DELLA SOLETTA/PLATEA PER CABINA INVERTER
Ubicazione	Comune di DELICETO (FG) (Regione PUGLIA) Località DELICETO (FG) Longitudine 15.386, Latitudine 41.222

FASCICOLO DI CALCOLO

**TOMO N.5 – VERIFICHE DI RESISTENZA PER LA SOLETTA/PLATEA
DELLE CABINE DI CONVERSIONE E TRASFORMAZIONE**

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RELAZIONE DI CALCOLO STRUTTURALE

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.

Descrizione generale dell'opera

In questo **Tomo di calcolo n.5** si affrontano le verifiche strutturali SLU e SLE per la soletta/platea della cabina inverter soggetta a soli carichi di pressione.

Descrizione generale dell'opera	
Tipo di fondazione	DIRETTA A PLATEA

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

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:

$$\mathbf{K} * \mathbf{u} = \mathbf{F} \quad \text{dove} \quad \mathbf{K} = \text{matrice di rigidezza}$$

\mathbf{u} = vettore spostamenti nodali

\mathbf{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)

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	
Sismica statica lineare	NO
Sismica dinamica lineare	NO
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
Analisi lineare	SI

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

Modellazione della geometria e proprietà meccaniche:	
nodi	120
elementi D2 (per aste, travi, pilastri...)	0
elementi D3 (per pareti, platee, gusci...)	98
elementi solaio	0
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	0.00
Xmax =	710.00
Ymin =	0.00
Ymax =	350.00

Zmin =	0.00
Zmax =	0.00
Strutture verticali:	
Elementi di tipo asta	NO
Pilastrri	NO
Pareti	NO
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	NO
Travi	NO
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	NO
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	SI
Fondazioni con elementi solidi	NO

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”**.

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
SLU	SI
Combinazione caratteristica (rara)	SI
Combinazione frequente	SI
Combinazione quasi permanente (SLE)	SI

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 involuipi 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 anormali. 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.).

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.

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.

RELAZIONE SUI MATERIALI

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

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.

ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

Vertici della maglia elementare INGv [riferimento WGS84]

Id nodo	Longitudine	Latitudine	Distanza [km]
31441	15.351	41.220	2.926
31442	15.418	41.219	2.688
31220	15.419	41.269	5.890
31219	15.353	41.270	5.988

Coordinate geografiche [riferimento WGS84]

Località:

Longitudine: Latitudine:

Parametri per le forme spettrali

	Pver	Tr	ag [g]	Fo	T*c
SLO	<input type="text" value="81"/>	<input type="text" value="30.11"/>	<input type="text" value="0.0496"/>	<input type="text" value="2.416"/>	<input type="text" value="0.290"/>
SLD	<input type="text" value="63"/>	<input type="text" value="50.29"/>	<input type="text" value="0.0626"/>	<input type="text" value="2.534"/>	<input type="text" value="0.320"/>
SLV	<input type="text" value="10"/>	<input type="text" value="474.56"/>	<input type="text" value="0.1874"/>	<input type="text" value="2.456"/>	<input type="text" value="0.416"/>
SLC	<input type="text" value="5"/>	<input type="text" value="974.79"/>	<input type="text" value="0.2593"/>	<input type="text" value="2.436"/>	<input type="text" value="0.423"/>

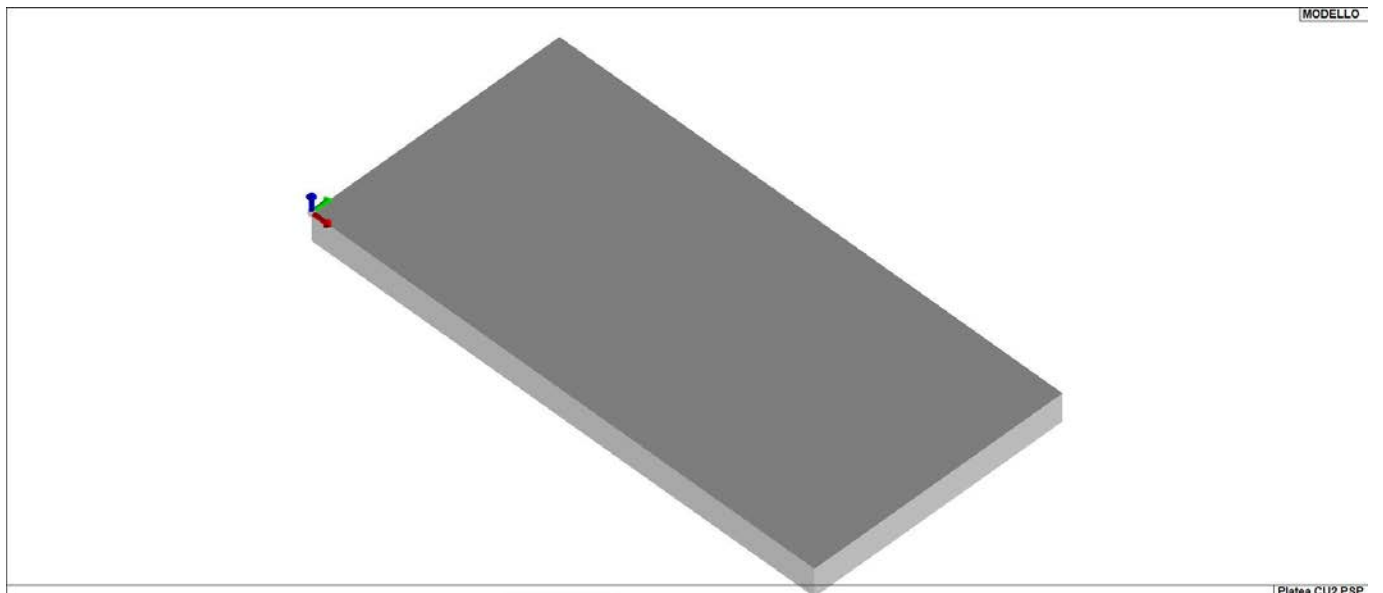
Periodo di riferimento per l'azione sismica

Vita Vn [anni]	Coefficiente uso Cu	Periodo Vr [anni]	Livello di sicurezza
<input type="text" value="50"/>	<input type="text" value="1"/>	<input type="text" value="50"/>	<input type="text" value="100"/>

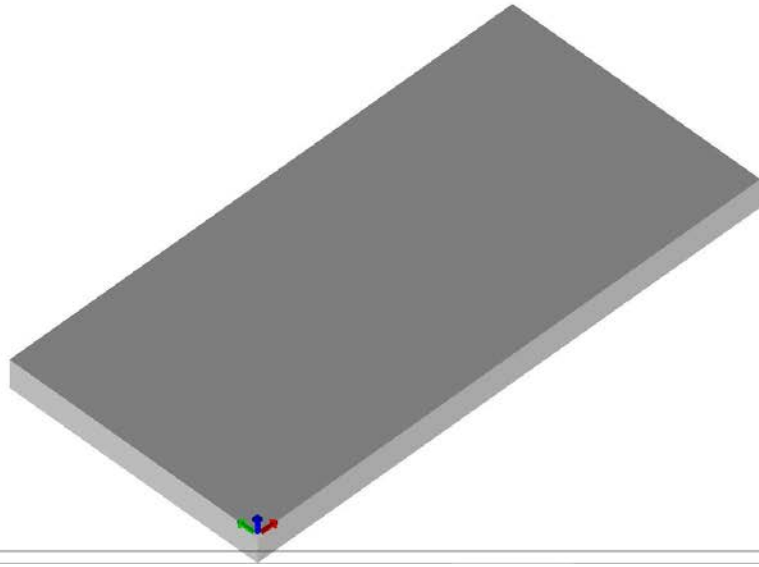
Nota: per il calcolo dei parametri sismici
 1) inserire le coordinate geografiche 2) introdurre Vn e Cu

Per le isole è possibile utilizzare come località: gruppo isole N [con N = 1,2,3,4,5]

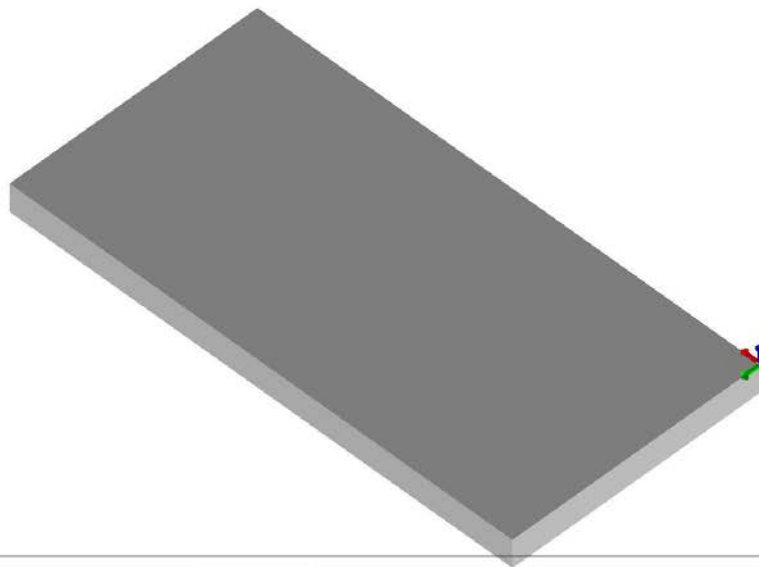
01_INT_PERICOLOSITA



01_INT_VISTA_SOLIDATA_001



01_INT_VISTA_SOLIDATA_002



01_INT_VISTA_SOLIDATA_003

CARATTERISTICHE MATERIALI UTILIZZATI

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

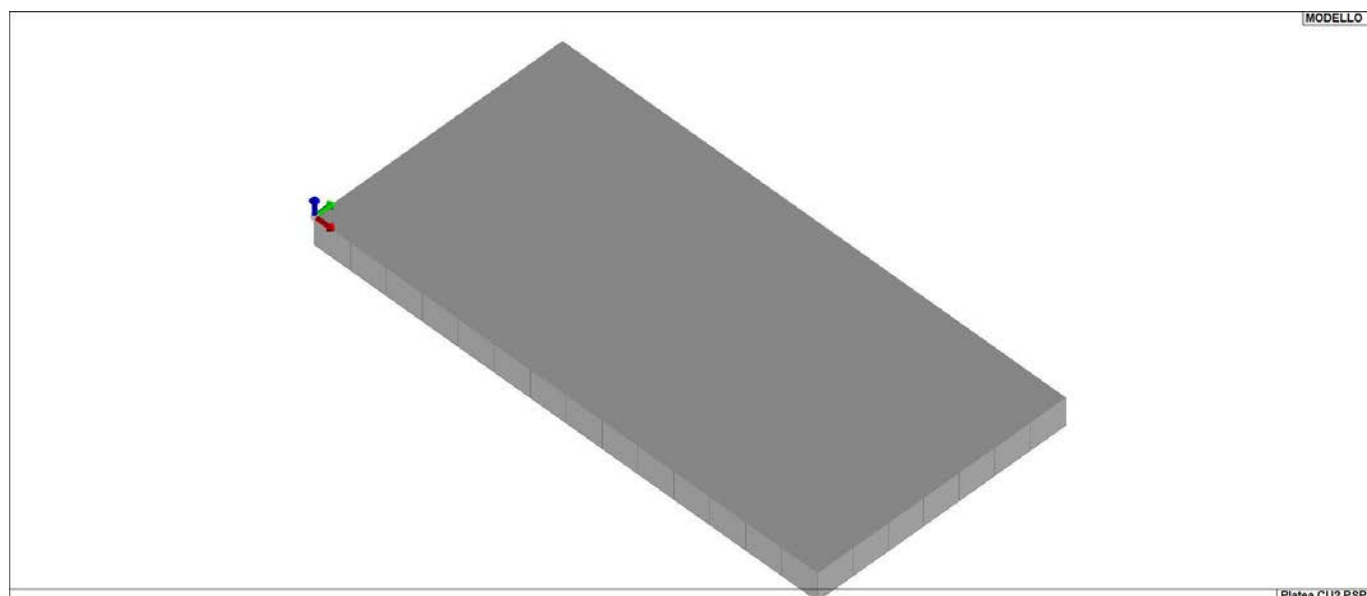
I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

1	c.a.	Resistenza Rc Resistenza fctm Coefficiente ksb	resistenza a compressione cubica resistenza media a trazione semplice Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione ft Tensione fy Resistenza fd Resistenza fd (>40) Tensione ammissibile Tensione ammissibile(>40)	Valore della tensione di rottura Valore della tensione di snervamento Resistenza di calcolo per SL CNR-UNI 10011 Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm Tensione ammissibile CNR-UNI 10011 Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura	Muratura consolidata Incremento resistenza Incremento rigidezza Resistenza f Resistenza fv0 Resistenza fh Resistenza fb Resistenza fbh Resistenza fv0h Resistenza ft Resistenza flim Resistenza fbt Coefficiente mu Coefficiente fi Coefficiente ksb	Muratura per la quale si prevedono interventi di rinforzo* Incremento conseguito in termini di resistenza Incremento conseguito in termini di rigidezza Valore della resistenza a compressione Valore della resistenza a taglio in assenza di tensioni normali Valore della resistenza a compressione orizzontale Valore della resistenza a compressione dei blocchi Valore della resistenza a compressione dei blocchi in direzione orizzontale Valore della resistenza a taglio in assenza di tensioni normali per le travi Valore della resistenza a trazione per fessurazione diagonale Valore della massima resistenza a taglio Valore della resistenza a trazione dei blocchi Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4) Coefficiente d'ingranamento utilizzato per la resistenza a taglio Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4	legno	E0,05 Resistenza fc0 Resistenza ft0 Resistenza fm Resistenza fv Resist. ft0k Resist. fmk Resist. fvk Modulo E0,05 Lamellare	Modulo di elasticità corrispondente ad un frattile del 5% Valore della resistenza a compressione parallela Valore della resistenza a trazione parallela Valore della resistenza a flessione Valore della resistenza a taglio Resistenza caratteristica (tensione amm. per REGLES) per trazione Resistenza caratteristica (tensione amm. per REGLES) per flessione Resistenza caratteristica (tensione amm. per REGLES) per taglio Modulo elastico parallelo caratteristico 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.

id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
1	Calcestruzzo Classe C25/30			3.145e+05	0.20	1.310e+05	2.50e-03	1.00e-05	
	Resistenza Rc	300.0							
	Resistenza fctm		25.6						
	Rapporto Rfessurata (assiale)								1.00
	Rapporto Rfessurata (flessione)								1.00
	Rapporto Rfessurata (taglio)								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05



11_MOD_MATERIALI_D3

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Armatura						
Inclinazione Ax [gradi]	0.0	0.0				
Angolo Ax-Ay [gradi]	90.00	90.00				
Minima tesa	0.31	0.10				
Massima tesa	0.78	4.00				
Maglia unica centrale	NO	NO				
Copriferro [cm]	2.00	5.00				
Maglia x						
diámetro	10	16				
passo	20	20				
diámetro aggiuntivi	12	16				
Maglia y						
diámetro	10	16				
passo	20	20				
diámetro aggiuntivi	12	16				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15				
Coefficiente gamma c	1.50	1.50				
Verifiche con N costante	SI	SI				
Applica SLU da DIN	NO	NO				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50				
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00				
Resistenza al fuoco						
3- intradosso	NO	NO				
3+ estradosso	NO	NO				
Tempo di esposizione R	15	15				

MODELLAZIONE STRUTTURA: NODI

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:

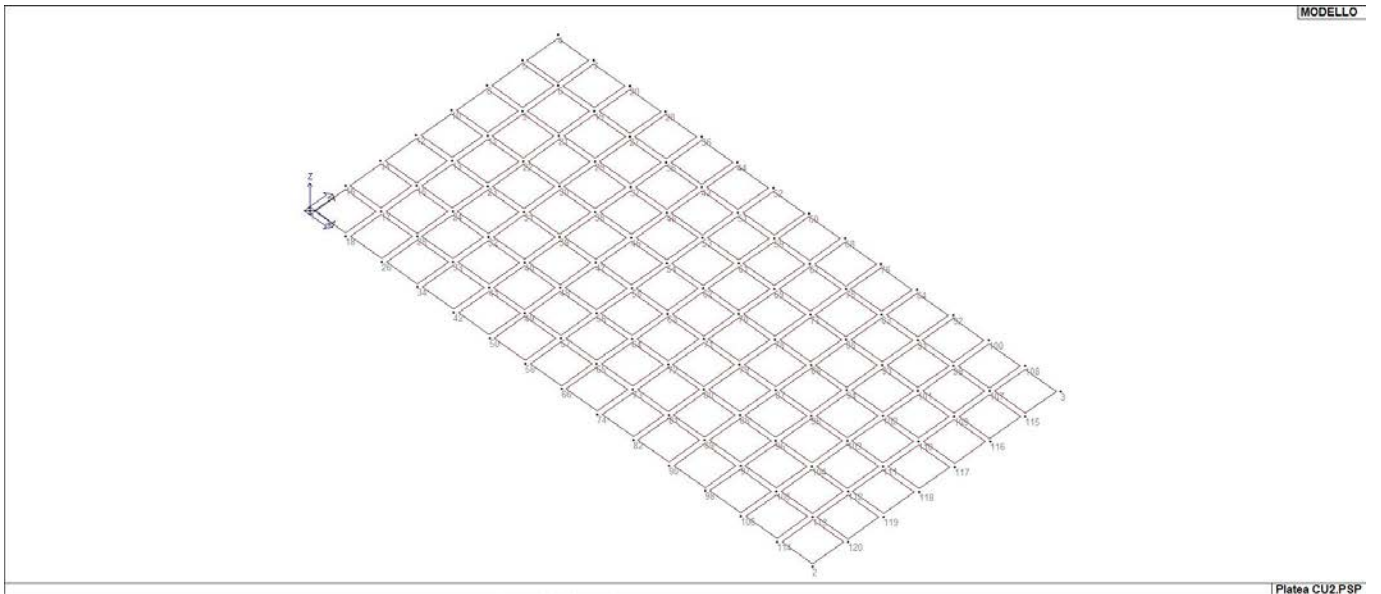
Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, 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

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	0.0	0.0	0.0	2	710.0	0.0	0.0	3	710.0	350.0	0.0
4	0.0	350.0	0.0	5	0.0	300.0	0.0	6	50.7	300.0	0.0
7	50.7	350.0	0.0	8	0.0	250.0	0.0	9	50.7	250.0	0.0
10	0.0	200.0	0.0	11	50.7	200.0	0.0	12	0.0	150.0	0.0
13	50.7	150.0	0.0	14	0.0	100.0	0.0	15	50.7	100.0	0.0
16	0.0	50.0	0.0	17	50.7	50.0	0.0	18	50.7	0.0	0.0
19	101.4	300.0	0.0	20	101.4	350.0	0.0	21	101.4	250.0	0.0
22	101.4	200.0	0.0	23	101.4	150.0	0.0	24	101.4	100.0	0.0
25	101.4	50.0	0.0	26	101.4	0.0	0.0	27	152.1	300.0	0.0
28	152.1	350.0	0.0	29	152.1	250.0	0.0	30	152.1	200.0	0.0
31	152.1	150.0	0.0	32	152.1	100.0	0.0	33	152.1	50.0	0.0
34	152.1	0.0	0.0	35	202.9	300.0	0.0	36	202.9	350.0	0.0
37	202.9	250.0	0.0	38	202.9	200.0	0.0	39	202.9	150.0	0.0
40	202.9	100.0	0.0	41	202.9	50.0	0.0	42	202.9	0.0	0.0
43	253.6	300.0	0.0	44	253.6	350.0	0.0	45	253.6	250.0	0.0
46	253.6	200.0	0.0	47	253.6	150.0	0.0	48	253.6	100.0	0.0
49	253.6	50.0	0.0	50	253.6	0.0	0.0	51	304.3	300.0	0.0
52	304.3	350.0	0.0	53	304.3	250.0	0.0	54	304.3	200.0	0.0
55	304.3	150.0	0.0	56	304.3	100.0	0.0	57	304.3	50.0	0.0
58	304.3	0.0	0.0	59	355.0	300.0	0.0	60	355.0	350.0	0.0

61	355.0	250.0	0.0	62	355.0	200.0	0.0	63	355.0	150.0	0.0
64	355.0	100.0	0.0	65	355.0	50.0	0.0	66	355.0	0.0	0.0
67	405.7	300.0	0.0	68	405.7	350.0	0.0	69	405.7	250.0	0.0
70	405.7	200.0	0.0	71	405.7	150.0	0.0	72	405.7	100.0	0.0
73	405.7	50.0	0.0	74	405.7	0.0	0.0	75	456.4	300.0	0.0
76	456.4	350.0	0.0	77	456.4	250.0	0.0	78	456.4	200.0	0.0
79	456.4	150.0	0.0	80	456.4	100.0	0.0	81	456.4	50.0	0.0
82	456.4	0.0	0.0	83	507.1	300.0	0.0	84	507.1	350.0	0.0
85	507.1	250.0	0.0	86	507.1	200.0	0.0	87	507.1	150.0	0.0
88	507.1	100.0	0.0	89	507.1	50.0	0.0	90	507.1	0.0	0.0
91	557.9	300.0	0.0	92	557.9	350.0	0.0	93	557.9	250.0	0.0
94	557.9	200.0	0.0	95	557.9	150.0	0.0	96	557.9	100.0	0.0
97	557.9	50.0	0.0	98	557.9	0.0	0.0	99	608.6	300.0	0.0
100	608.6	350.0	0.0	101	608.6	250.0	0.0	102	608.6	200.0	0.0
103	608.6	150.0	0.0	104	608.6	100.0	0.0	105	608.6	50.0	0.0
106	608.6	0.0	0.0	107	659.3	300.0	0.0	108	659.3	350.0	0.0
109	659.3	250.0	0.0	110	659.3	200.0	0.0	111	659.3	150.0	0.0
112	659.3	100.0	0.0	113	659.3	50.0	0.0	114	659.3	0.0	0.0
115	710.0	300.0	0.0	116	710.0	250.0	0.0	117	710.0	200.0	0.0
118	710.0	150.0	0.0	119	710.0	100.0	0.0	120	710.0	50.0	0.0



14_MOD_NUMERAZIONE_NODI

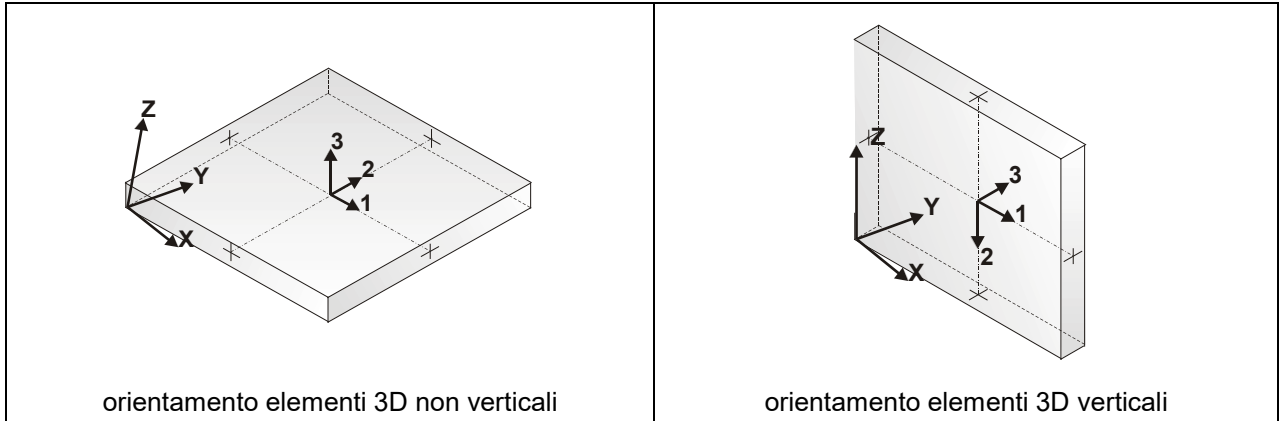
MODELLAZIONE STRUTTURALE: ELEMENTI SHELL

LEGENDA TABELLA DATI SHELL

Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.

Ogni elemento shell è individuato dai nodi I, J, K, L (L=I per gli elementi a tre nodi).

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

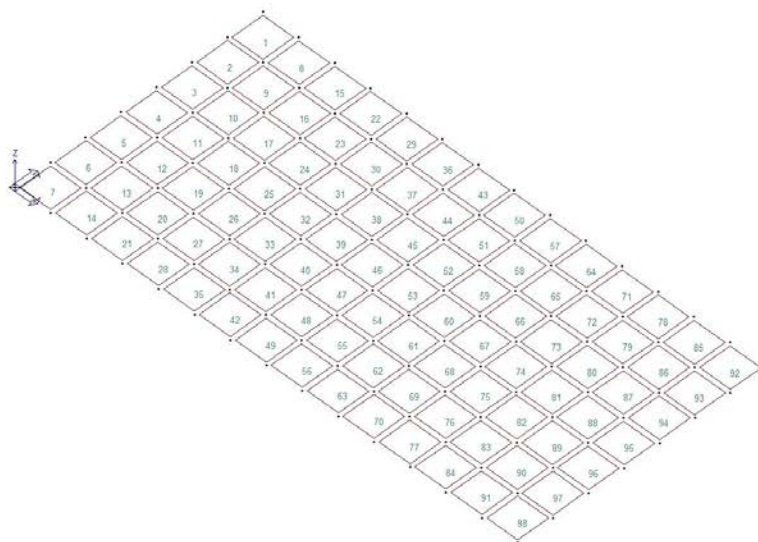


In particolare per ogni elemento viene indicato in tabella:

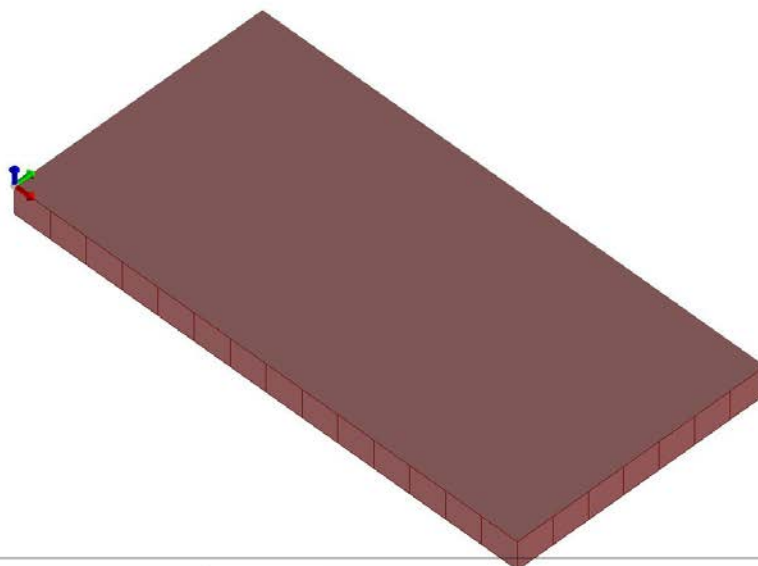
Elem.	numero dell'elemento
Note	codice di comportamento: <i>Guscio</i> (elemento guscio in elevazione non verticale) <i>Guscio fond.</i> (elemento guscio su suolo elastico) <i>Setto</i> (elemento guscio in elevazione verticale) <i>Membrana</i> (elemento guscio con comportamento membranale)
Nodo I (J, K, L)	numero del nodo I (J, K, L)
Mat.	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore cm	Svincolo	Wink V daN/cm ³	Wink O daN/cm ³
1	Guscio fond.	5	6	7	4	1	2	40.0		2.50	1.00
2	Guscio fond.	8	9	6	5	1	2	40.0		2.50	1.00
3	Guscio fond.	10	11	9	8	1	2	40.0		2.50	1.00
4	Guscio fond.	12	13	11	10	1	2	40.0		2.50	1.00
5	Guscio fond.	14	15	13	12	1	2	40.0		2.50	1.00
6	Guscio fond.	16	17	15	14	1	2	40.0		2.50	1.00
7	Guscio fond.	1	18	17	16	1	2	40.0		2.50	1.00
8	Guscio fond.	6	19	20	7	1	2	40.0		2.50	1.00
9	Guscio fond.	9	21	19	6	1	2	40.0		2.50	1.00
10	Guscio fond.	11	22	21	9	1	2	40.0		2.50	1.00
11	Guscio fond.	13	23	22	11	1	2	40.0		2.50	1.00
12	Guscio fond.	15	24	23	13	1	2	40.0		2.50	1.00
13	Guscio fond.	17	25	24	15	1	2	40.0		2.50	1.00
14	Guscio fond.	18	26	25	17	1	2	40.0		2.50	1.00
15	Guscio fond.	19	27	28	20	1	2	40.0		2.50	1.00
16	Guscio fond.	21	29	27	19	1	2	40.0		2.50	1.00
17	Guscio fond.	22	30	29	21	1	2	40.0		2.50	1.00
18	Guscio fond.	23	31	30	22	1	2	40.0		2.50	1.00
19	Guscio fond.	24	32	31	23	1	2	40.0		2.50	1.00
20	Guscio fond.	25	33	32	24	1	2	40.0		2.50	1.00
21	Guscio fond.	26	34	33	25	1	2	40.0		2.50	1.00

22Guscio fond.	27	35	36	28	1	2	40.0	2.50	1.00
23Guscio fond.	29	37	35	27	1	2	40.0	2.50	1.00
24Guscio fond.	30	38	37	29	1	2	40.0	2.50	1.00
25Guscio fond.	31	39	38	30	1	2	40.0	2.50	1.00
26Guscio fond.	32	40	39	31	1	2	40.0	2.50	1.00
27Guscio fond.	33	41	40	32	1	2	40.0	2.50	1.00
28Guscio fond.	34	42	41	33	1	2	40.0	2.50	1.00
29Guscio fond.	35	43	44	36	1	2	40.0	2.50	1.00
30Guscio fond.	37	45	43	35	1	2	40.0	2.50	1.00
31Guscio fond.	38	46	45	37	1	2	40.0	2.50	1.00
32Guscio fond.	39	47	46	38	1	2	40.0	2.50	1.00
33Guscio fond.	40	48	47	39	1	2	40.0	2.50	1.00
34Guscio fond.	41	49	48	40	1	2	40.0	2.50	1.00
35Guscio fond.	42	50	49	41	1	2	40.0	2.50	1.00
36Guscio fond.	43	51	52	44	1	2	40.0	2.50	1.00
37Guscio fond.	45	53	51	43	1	2	40.0	2.50	1.00
38Guscio fond.	46	54	53	45	1	2	40.0	2.50	1.00
39Guscio fond.	47	55	54	46	1	2	40.0	2.50	1.00
40Guscio fond.	48	56	55	47	1	2	40.0	2.50	1.00
41Guscio fond.	49	57	56	48	1	2	40.0	2.50	1.00
42Guscio fond.	50	58	57	49	1	2	40.0	2.50	1.00
43Guscio fond.	51	59	60	52	1	2	40.0	2.50	1.00
44Guscio fond.	53	61	59	51	1	2	40.0	2.50	1.00
45Guscio fond.	54	62	61	53	1	2	40.0	2.50	1.00
46Guscio fond.	55	63	62	54	1	2	40.0	2.50	1.00
47Guscio fond.	56	64	63	55	1	2	40.0	2.50	1.00
48Guscio fond.	57	65	64	56	1	2	40.0	2.50	1.00
49Guscio fond.	58	66	65	57	1	2	40.0	2.50	1.00
50Guscio fond.	59	67	68	60	1	2	40.0	2.50	1.00
51Guscio fond.	61	69	67	59	1	2	40.0	2.50	1.00
52Guscio fond.	62	70	69	61	1	2	40.0	2.50	1.00
53Guscio fond.	63	71	70	62	1	2	40.0	2.50	1.00
54Guscio fond.	64	72	71	63	1	2	40.0	2.50	1.00
55Guscio fond.	65	73	72	64	1	2	40.0	2.50	1.00
56Guscio fond.	66	74	73	65	1	2	40.0	2.50	1.00
57Guscio fond.	67	75	76	68	1	2	40.0	2.50	1.00
58Guscio fond.	69	77	75	67	1	2	40.0	2.50	1.00
59Guscio fond.	70	78	77	69	1	2	40.0	2.50	1.00
60Guscio fond.	71	79	78	70	1	2	40.0	2.50	1.00
61Guscio fond.	72	80	79	71	1	2	40.0	2.50	1.00
62Guscio fond.	73	81	80	72	1	2	40.0	2.50	1.00
63Guscio fond.	74	82	81	73	1	2	40.0	2.50	1.00
64Guscio fond.	75	83	84	76	1	2	40.0	2.50	1.00
65Guscio fond.	77	85	83	75	1	2	40.0	2.50	1.00
66Guscio fond.	78	86	85	77	1	2	40.0	2.50	1.00
67Guscio fond.	79	87	86	78	1	2	40.0	2.50	1.00
68Guscio fond.	80	88	87	79	1	2	40.0	2.50	1.00
69Guscio fond.	81	89	88	80	1	2	40.0	2.50	1.00
70Guscio fond.	82	90	89	81	1	2	40.0	2.50	1.00
71Guscio fond.	83	91	92	84	1	2	40.0	2.50	1.00
72Guscio fond.	85	93	91	83	1	2	40.0	2.50	1.00
73Guscio fond.	86	94	93	85	1	2	40.0	2.50	1.00
74Guscio fond.	87	95	94	86	1	2	40.0	2.50	1.00
75Guscio fond.	88	96	95	87	1	2	40.0	2.50	1.00
76Guscio fond.	89	97	96	88	1	2	40.0	2.50	1.00
77Guscio fond.	90	98	97	89	1	2	40.0	2.50	1.00
78Guscio fond.	91	99	100	92	1	2	40.0	2.50	1.00
79Guscio fond.	93	101	99	91	1	2	40.0	2.50	1.00
80Guscio fond.	94	102	101	93	1	2	40.0	2.50	1.00
81Guscio fond.	95	103	102	94	1	2	40.0	2.50	1.00
82Guscio fond.	96	104	103	95	1	2	40.0	2.50	1.00
83Guscio fond.	97	105	104	96	1	2	40.0	2.50	1.00
84Guscio fond.	98	106	105	97	1	2	40.0	2.50	1.00
85Guscio fond.	99	107	108	100	1	2	40.0	2.50	1.00
86Guscio fond.	101	109	107	99	1	2	40.0	2.50	1.00
87Guscio fond.	102	110	109	101	1	2	40.0	2.50	1.00
88Guscio fond.	103	111	110	102	1	2	40.0	2.50	1.00
89Guscio fond.	104	112	111	103	1	2	40.0	2.50	1.00
90Guscio fond.	105	113	112	104	1	2	40.0	2.50	1.00
91Guscio fond.	106	114	113	105	1	2	40.0	2.50	1.00
92Guscio fond.	107	115	3	108	1	2	40.0	2.50	1.00
93Guscio fond.	109	116	115	107	1	2	40.0	2.50	1.00
94Guscio fond.	110	117	116	109	1	2	40.0	2.50	1.00
95Guscio fond.	111	118	117	110	1	2	40.0	2.50	1.00
96Guscio fond.	112	119	118	111	1	2	40.0	2.50	1.00
97Guscio fond.	113	120	119	112	1	2	40.0	2.50	1.00
98Guscio fond.	114	2	120	113	1	2	40.0	2.50	1.00



16_MOD_NUMERAZIONE_D3



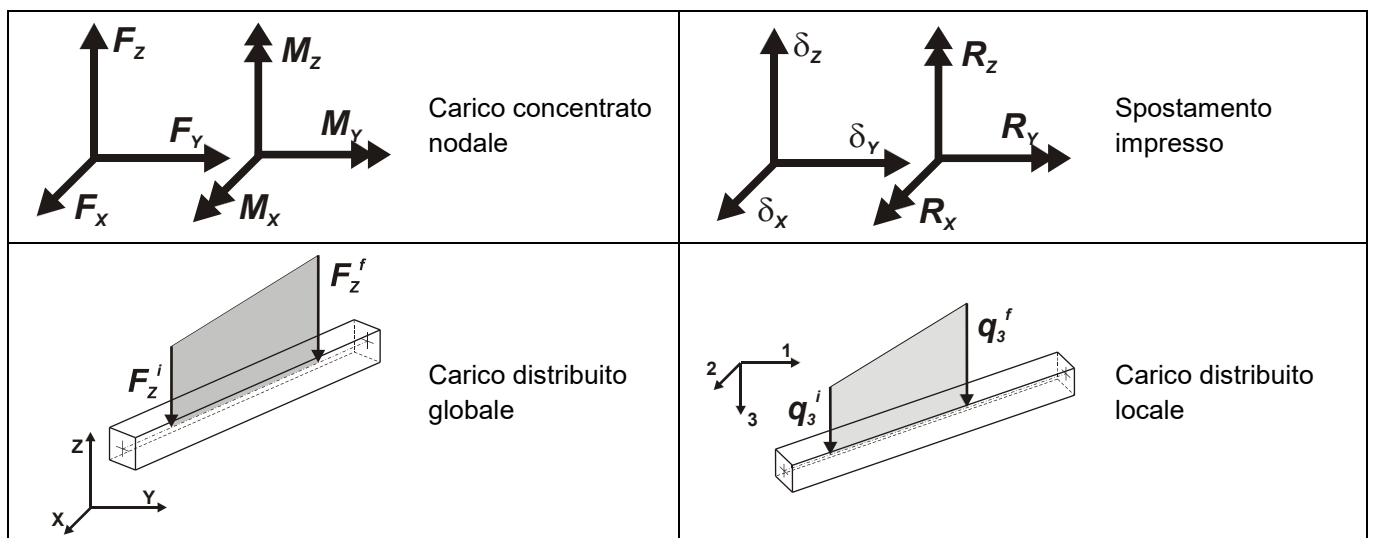
16_MOD_SPESSORI_D3

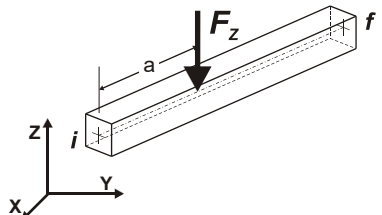
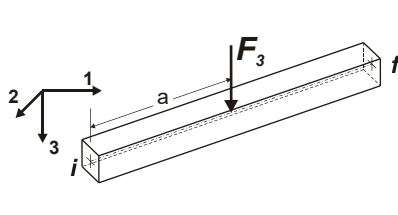
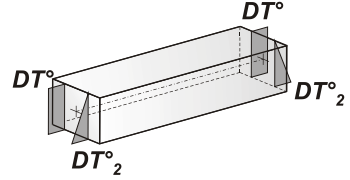
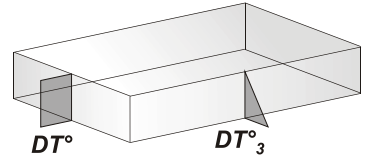
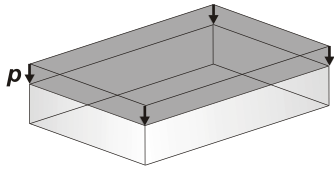
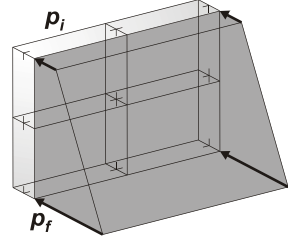
MODELLAZIONE DELLE AZIONI

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 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 ($f_x, f_y, f_z, m_x, m_y, m_z$, ascissa di inizio carico) 7 dati ($f_x, f_y, f_z, m_x, m_y, m_z$, ascissa di fine carico)
4	carico distribuito locale su elemento tipo trave 7 dati ($f_1, f_2, f_3, m_1, m_2, m_3$, ascissa di inizio carico) 7 dati ($f_1, f_2, f_3, m_1, m_2, m_3$, ascissa di fine carico)
5	carico concentrato globale su elemento tipo trave 7 dati ($F_x, F_y, F_z, M_x, M_y, M_z$, ascissa di carico)
6	carico concentrato locale su elemento tipo trave 7 dati ($F_1, F_2, F_3, M_1, M_2, M_3$, 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)



 <p>Carico concentrato globale</p>	 <p>Carico concentrato locale</p>
 <p>Carico termico 2D</p>	 <p>Carico termico 3D</p>
 <p>Carico pressione uniforme</p>	 <p>Carico pressione variabile</p>

Tipo carico di pressione uniforme su piastra

Id	Tipo	pressione daN/cm2
9	gk2-P3:p=-0.12	-0.12
10	qk E-P3:p=-2.000e-02	-0.02

SCHEMATIZZAZIONE DEI CASI DI CARICO

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:

	Sigla	Tipo	Descrizione
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.

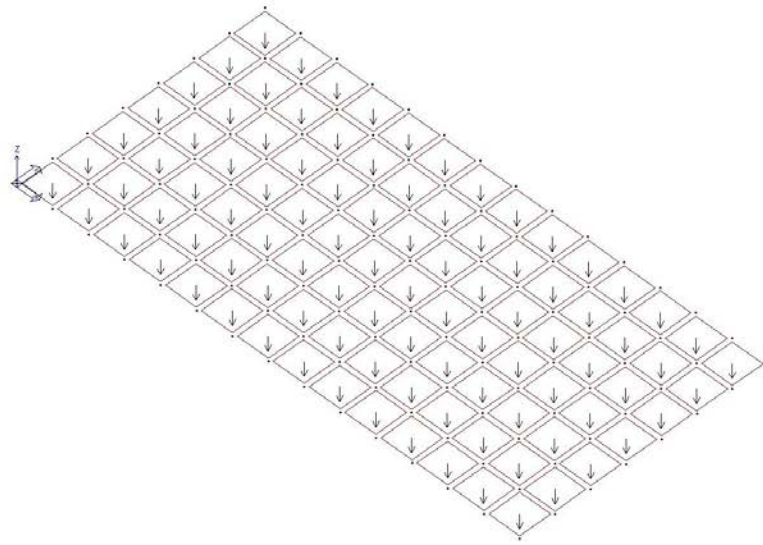
Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:

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

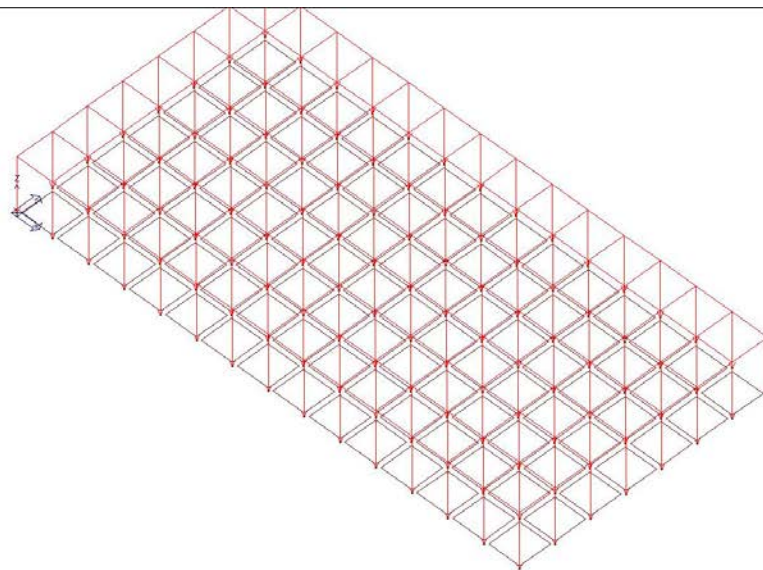
In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

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.

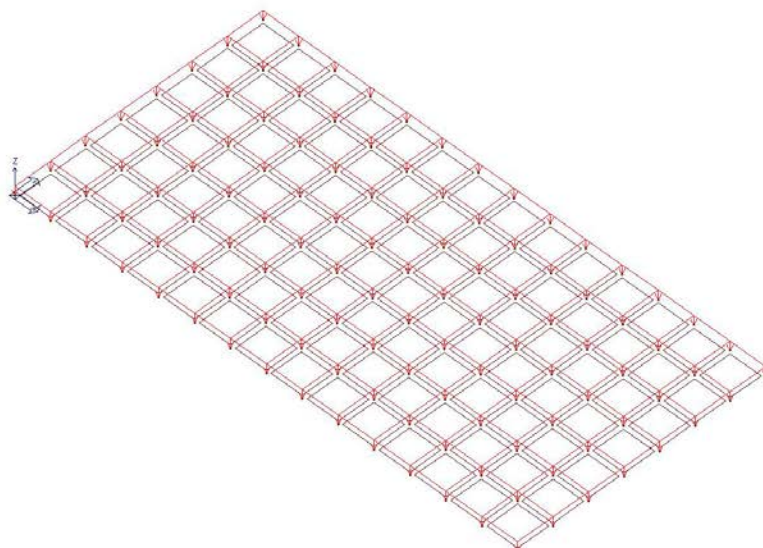
CDC	Tipo	Sigla Id	Note
1	Ggk	CDC=Ggk (peso proprio della struttura)	
2	Gk	CDC=G2k cabina inverter	Azioni applicate: D3 :da 1 a 98 Azione : gk2-P3:p=-0.12
3	Qk	CDC=Qk E cabina inverter	Azioni applicate: D3 :da 1 a 98 Azione : qk E-P3:p=-2.000e-02



22_CDC_001_CDC=Ggk (peso proprio della struttura)



22_CDC_002_CDC=G2k cabina inverter



22_CDC_003_CDC=Qk E cabina inverter

DEFINIZIONE DELLE COMBINAZIONI

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

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

RISULTATI NODALI

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.

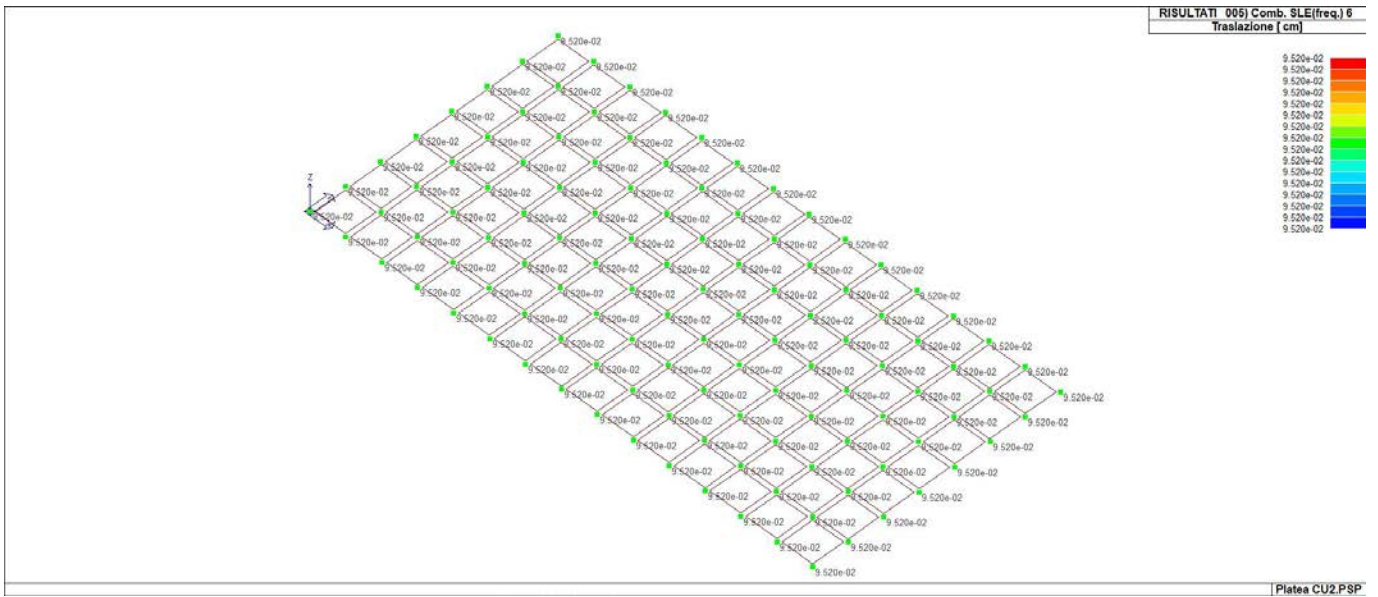
Una seconda tabella riporta per ogni nodo a cui sia associato un vincolo rigido e/o elastico o una fondazione speciale e per ogni combinazione (o caso di carico) i valori delle azioni esercitate dalla struttura sui vincoli (reazioni vincolari cambiate di segno).

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.

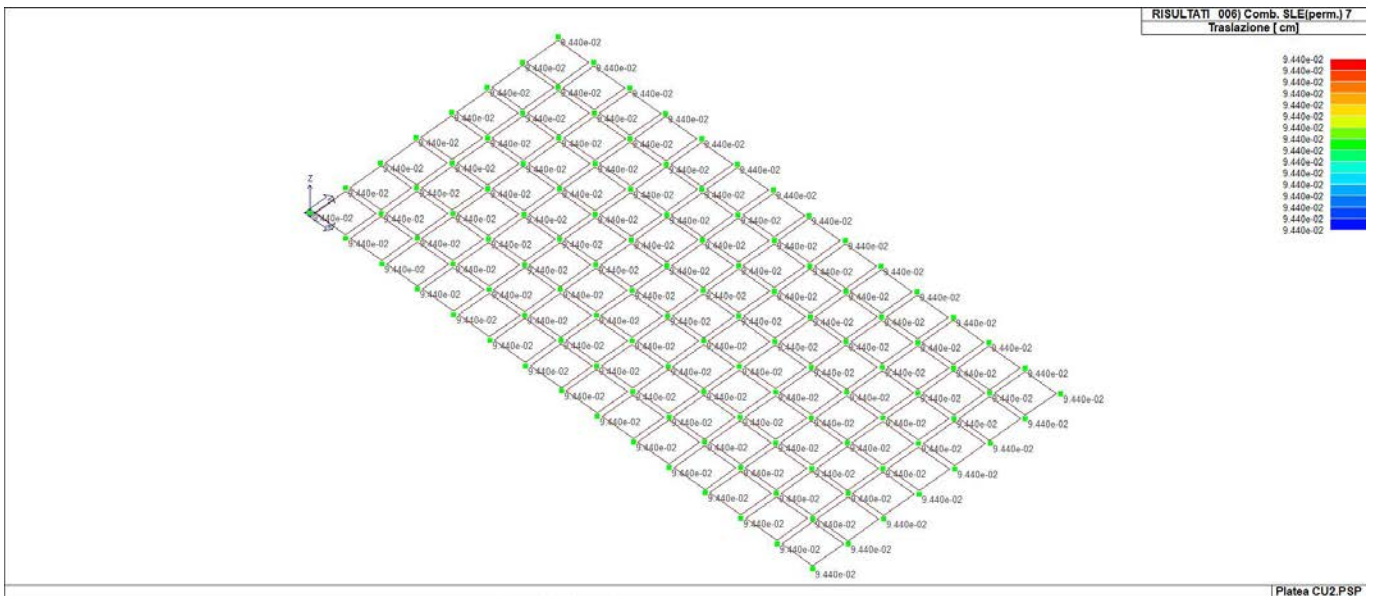
Nodo	Cmb	Traslazione X cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	2	0.0	0.0	-0.14	0.0	0.0	0.0
1	4	0.0	0.0	-0.10	0.0	0.0	0.0
1	5	0.0	0.0	-0.10	0.0	0.0	0.0
1	6	0.0	0.0	-0.09	0.0	0.0	0.0
2	2	0.0	0.0	-0.14	0.0	0.0	0.0
2	4	0.0	0.0	-0.10	0.0	0.0	0.0
2	5	0.0	0.0	-0.10	0.0	0.0	0.0
2	6	0.0	0.0	-0.09	0.0	0.0	0.0
3	2	0.0	0.0	-0.14	0.0	0.0	0.0
3	4	0.0	0.0	-0.10	0.0	0.0	0.0
3	5	0.0	0.0	-0.10	0.0	0.0	0.0
3	6	0.0	0.0	-0.09	0.0	0.0	0.0
4	2	0.0	0.0	-0.14	0.0	0.0	0.0
4	4	0.0	0.0	-0.10	0.0	0.0	0.0
4	5	0.0	0.0	-0.10	0.0	0.0	0.0
4	6	0.0	0.0	-0.09	0.0	0.0	0.0
5	2	0.0	0.0	-0.14	0.0	0.0	0.0
5	4	0.0	0.0	-0.10	0.0	0.0	0.0
5	5	0.0	0.0	-0.10	0.0	0.0	0.0
5	6	0.0	0.0	-0.09	0.0	0.0	0.0
6	2	0.0	0.0	-0.14	0.0	0.0	0.0
6	4	0.0	0.0	-0.10	0.0	0.0	0.0
6	5	0.0	0.0	-0.10	0.0	0.0	0.0
6	6	0.0	0.0	-0.09	0.0	0.0	0.0
7	2	0.0	0.0	-0.14	0.0	0.0	0.0
7	4	0.0	0.0	-0.10	0.0	0.0	0.0
7	5	0.0	0.0	-0.10	0.0	0.0	0.0
7	6	0.0	0.0	-0.09	0.0	0.0	0.0
8	2	0.0	0.0	-0.14	0.0	0.0	0.0
8	4	0.0	0.0	-0.10	0.0	0.0	0.0
8	5	0.0	0.0	-0.10	0.0	0.0	0.0
8	6	0.0	0.0	-0.09	0.0	0.0	0.0
9	2	0.0	0.0	-0.14	0.0	0.0	0.0
9	4	0.0	0.0	-0.10	0.0	0.0	0.0
9	5	0.0	0.0	-0.10	0.0	0.0	0.0
9	6	0.0	0.0	-0.09	0.0	0.0	0.0
10	2	0.0	0.0	-0.14	0.0	0.0	0.0
10	4	0.0	0.0	-0.10	0.0	0.0	0.0
10	5	0.0	0.0	-0.10	0.0	0.0	0.0
10	6	0.0	0.0	-0.09	0.0	0.0	0.0
11	2	0.0	0.0	-0.14	0.0	0.0	0.0
11	4	0.0	0.0	-0.10	0.0	0.0	0.0
11	5	0.0	0.0	-0.10	0.0	0.0	0.0
11	6	0.0	0.0	-0.09	0.0	0.0	0.0
12	2	0.0	0.0	-0.14	0.0	0.0	0.0
12	4	0.0	0.0	-0.10	0.0	0.0	0.0
12	5	0.0	0.0	-0.10	0.0	0.0	0.0
12	6	0.0	0.0	-0.09	0.0	0.0	0.0
13	2	0.0	0.0	-0.14	0.0	0.0	0.0
13	4	0.0	0.0	-0.10	0.0	0.0	0.0

109	6	0.0	0.0	-0.09	0.0	0.0	0.0
110	2	0.0	0.0	-0.14	0.0	0.0	0.0
110	4	0.0	0.0	-0.10	0.0	0.0	0.0
110	5	0.0	0.0	-0.10	0.0	0.0	0.0
110	6	0.0	0.0	-0.09	0.0	0.0	0.0
111	2	0.0	0.0	-0.14	0.0	0.0	0.0
111	4	0.0	0.0	-0.10	0.0	0.0	0.0
111	5	0.0	0.0	-0.10	0.0	0.0	0.0
111	6	0.0	0.0	-0.09	0.0	0.0	0.0
112	2	0.0	0.0	-0.14	0.0	0.0	0.0
112	4	0.0	0.0	-0.10	0.0	0.0	0.0
112	5	0.0	0.0	-0.10	0.0	0.0	0.0
112	6	0.0	0.0	-0.09	0.0	0.0	0.0
113	2	0.0	0.0	-0.14	0.0	0.0	0.0
113	4	0.0	0.0	-0.10	0.0	0.0	0.0
113	5	0.0	0.0	-0.10	0.0	0.0	0.0
113	6	0.0	0.0	-0.09	0.0	0.0	0.0
114	2	0.0	0.0	-0.14	0.0	0.0	0.0
114	4	0.0	0.0	-0.10	0.0	0.0	0.0
114	5	0.0	0.0	-0.10	0.0	0.0	0.0
114	6	0.0	0.0	-0.09	0.0	0.0	0.0
115	2	0.0	0.0	-0.14	0.0	0.0	0.0
115	4	0.0	0.0	-0.10	0.0	0.0	0.0
115	5	0.0	0.0	-0.10	0.0	0.0	0.0
115	6	0.0	0.0	-0.09	0.0	0.0	0.0
116	2	0.0	0.0	-0.14	0.0	0.0	0.0
116	4	0.0	0.0	-0.10	0.0	0.0	0.0
116	5	0.0	0.0	-0.10	0.0	0.0	0.0
116	6	0.0	0.0	-0.09	0.0	0.0	0.0
117	2	0.0	0.0	-0.14	0.0	0.0	0.0
117	4	0.0	0.0	-0.10	0.0	0.0	0.0
117	5	0.0	0.0	-0.10	0.0	0.0	0.0
117	6	0.0	0.0	-0.09	0.0	0.0	0.0
118	2	0.0	0.0	-0.14	0.0	0.0	0.0
118	4	0.0	0.0	-0.10	0.0	0.0	0.0
118	5	0.0	0.0	-0.10	0.0	0.0	0.0
118	6	0.0	0.0	-0.09	0.0	0.0	0.0
119	2	0.0	0.0	-0.14	0.0	0.0	0.0
119	4	0.0	0.0	-0.10	0.0	0.0	0.0
119	5	0.0	0.0	-0.10	0.0	0.0	0.0
119	6	0.0	0.0	-0.09	0.0	0.0	0.0
120	2	0.0	0.0	-0.14	0.0	0.0	0.0
120	4	0.0	0.0	-0.10	0.0	0.0	0.0
120	5	0.0	0.0	-0.10	0.0	0.0	0.0
120	6	0.0	0.0	-0.09	0.0	0.0	0.0

Nodo	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
	0.0	0.0	-0.14	0.0	0.0	0.0
	0.0	0.0	-0.09	0.0	0.0	0.0



41_RIS_SPOSTAMENTI_005_Comb. SLE(freq.) 6



41_RIS_SPOSTAMENTI_006_Comb. SLE(perm.) 7

Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
Nodo		Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm

RISULTATI OPERE DI FONDAZIONE

LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sotto riportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.

Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (espresse nel riferimento globale della struttura) per ogni palo componente l'opera.

In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	codice corrispondente al nome assegnato al tipo di plinto di fondazione: 3) palo singolo (<i>PALO</i>) 4) plinto su palo 5) plinto su due pali (<i>PL.2P</i>) 6) plinto su tre pali (<i>PL.3P</i>) 7) plinto su quattro pali (<i>PL.4P</i>) 8) plinto rettangolare su cinque pali (<i>PL.5P.R</i>) 9) plinto pentagonale su cinque pali (<i>PL.5P</i>) 10) plinto su sei pali (<i>PL.6P</i>)
Palo	numero del palo
Comb.	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
Quota	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione F_z (corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.

In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	Codice identificativo del nome assegnato al plinto
area	area dell'impronta del plinto
Wink O Wink V	coefficienti di Winkler (orizzontale e verticale) adottati
Comb	Combinazione di carico in cui si verificano i valori riportati
Pt (P1 P2 P3 P4)	valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.

Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.

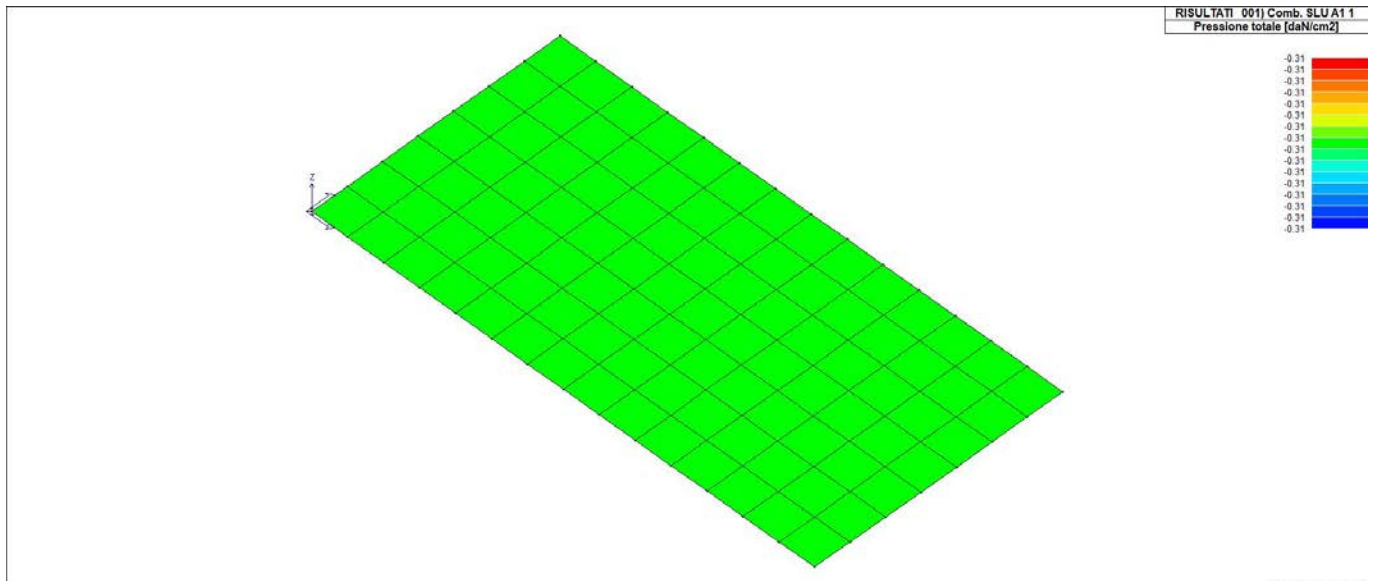
Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.

Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

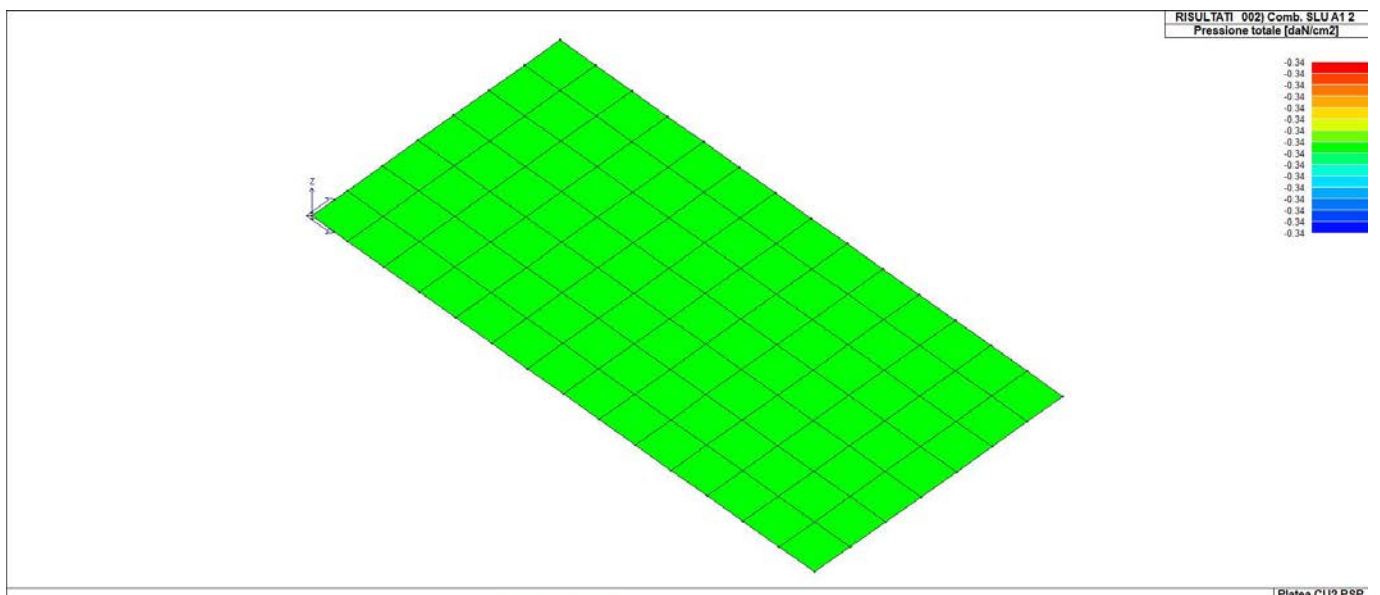
Nodo (G)	Pt 1/12 daN/cm2	Pt 2/13 daN/cm2	Pt 3... daN/cm2	Pt 4... daN/cm2	daN/cm2	daN/cm2
1	-0.34	-0.24	-0.24	-0.24		
2	-0.34	-0.24	-0.24	-0.24		
3	-0.34	-0.24	-0.24	-0.24		
4	-0.34	-0.24	-0.24	-0.24		
5	-0.34	-0.24	-0.24	-0.24		
6	-0.34	-0.24	-0.24	-0.24		
7	-0.34	-0.24	-0.24	-0.24		
8	-0.34	-0.24	-0.24	-0.24		
9	-0.34	-0.24	-0.24	-0.24		
10	-0.34	-0.24	-0.24	-0.24		
11	-0.34	-0.24	-0.24	-0.24		
12	-0.34	-0.24	-0.24	-0.24		
13	-0.34	-0.24	-0.24	-0.24		
14	-0.34	-0.24	-0.24	-0.24		
15	-0.34	-0.24	-0.24	-0.24		
16	-0.34	-0.24	-0.24	-0.24		
17	-0.34	-0.24	-0.24	-0.24		
18	-0.34	-0.24	-0.24	-0.24		
19	-0.34	-0.24	-0.24	-0.24		
20	-0.34	-0.24	-0.24	-0.24		
21	-0.34	-0.24	-0.24	-0.24		
22	-0.34	-0.24	-0.24	-0.24		
23	-0.34	-0.24	-0.24	-0.24		
24	-0.34	-0.24	-0.24	-0.24		
25	-0.34	-0.24	-0.24	-0.24		
26	-0.34	-0.24	-0.24	-0.24		
27	-0.34	-0.24	-0.24	-0.24		
28	-0.34	-0.24	-0.24	-0.24		
29	-0.34	-0.24	-0.24	-0.24		
30	-0.34	-0.24	-0.24	-0.24		
31	-0.34	-0.24	-0.24	-0.24		
32	-0.34	-0.24	-0.24	-0.24		
33	-0.34	-0.24	-0.24	-0.24		
34	-0.34	-0.24	-0.24	-0.24		
35	-0.34	-0.24	-0.24	-0.24		
36	-0.34	-0.24	-0.24	-0.24		
37	-0.34	-0.24	-0.24	-0.24		
38	-0.34	-0.24	-0.24	-0.24		
39	-0.34	-0.24	-0.24	-0.24		
40	-0.34	-0.24	-0.24	-0.24		
41	-0.34	-0.24	-0.24	-0.24		
42	-0.34	-0.24	-0.24	-0.24		
43	-0.34	-0.24	-0.24	-0.24		
44	-0.34	-0.24	-0.24	-0.24		
45	-0.34	-0.24	-0.24	-0.24		
46	-0.34	-0.24	-0.24	-0.24		
47	-0.34	-0.24	-0.24	-0.24		
48	-0.34	-0.24	-0.24	-0.24		
49	-0.34	-0.24	-0.24	-0.24		
50	-0.34	-0.24	-0.24	-0.24		
51	-0.34	-0.24	-0.24	-0.24		
52	-0.34	-0.24	-0.24	-0.24		
53	-0.34	-0.24	-0.24	-0.24		
54	-0.34	-0.24	-0.24	-0.24		
55	-0.34	-0.24	-0.24	-0.24		
56	-0.34	-0.24	-0.24	-0.24		
57	-0.34	-0.24	-0.24	-0.24		
58	-0.34	-0.24	-0.24	-0.24		
59	-0.34	-0.24	-0.24	-0.24		
60	-0.34	-0.24	-0.24	-0.24		
61	-0.34	-0.24	-0.24	-0.24		
62	-0.34	-0.24	-0.24	-0.24		
63	-0.34	-0.24	-0.24	-0.24		
64	-0.34	-0.24	-0.24	-0.24		
65	-0.34	-0.24	-0.24	-0.24		
66	-0.34	-0.24	-0.24	-0.24		
67	-0.34	-0.24	-0.24	-0.24		
68	-0.34	-0.24	-0.24	-0.24		
69	-0.34	-0.24	-0.24	-0.24		
70	-0.34	-0.24	-0.24	-0.24		
71	-0.34	-0.24	-0.24	-0.24		
72	-0.34	-0.24	-0.24	-0.24		
73	-0.34	-0.24	-0.24	-0.24		
74	-0.34	-0.24	-0.24	-0.24		
75	-0.34	-0.24	-0.24	-0.24		

76	-0.34	-0.24	-0.24	-0.24
77	-0.34	-0.24	-0.24	-0.24
78	-0.34	-0.24	-0.24	-0.24
79	-0.34	-0.24	-0.24	-0.24
80	-0.34	-0.24	-0.24	-0.24
81	-0.34	-0.24	-0.24	-0.24
82	-0.34	-0.24	-0.24	-0.24
83	-0.34	-0.24	-0.24	-0.24
84	-0.34	-0.24	-0.24	-0.24
85	-0.34	-0.24	-0.24	-0.24
86	-0.34	-0.24	-0.24	-0.24
87	-0.34	-0.24	-0.24	-0.24
88	-0.34	-0.24	-0.24	-0.24
89	-0.34	-0.24	-0.24	-0.24
90	-0.34	-0.24	-0.24	-0.24
91	-0.34	-0.24	-0.24	-0.24
92	-0.34	-0.24	-0.24	-0.24
93	-0.34	-0.24	-0.24	-0.24
94	-0.34	-0.24	-0.24	-0.24
95	-0.34	-0.24	-0.24	-0.24
96	-0.34	-0.24	-0.24	-0.24
97	-0.34	-0.24	-0.24	-0.24
98	-0.34	-0.24	-0.24	-0.24
99	-0.34	-0.24	-0.24	-0.24
100	-0.34	-0.24	-0.24	-0.24
101	-0.34	-0.24	-0.24	-0.24
102	-0.34	-0.24	-0.24	-0.24
103	-0.34	-0.24	-0.24	-0.24
104	-0.34	-0.24	-0.24	-0.24
105	-0.34	-0.24	-0.24	-0.24
106	-0.34	-0.24	-0.24	-0.24
107	-0.34	-0.24	-0.24	-0.24
108	-0.34	-0.24	-0.24	-0.24
109	-0.34	-0.24	-0.24	-0.24
110	-0.34	-0.24	-0.24	-0.24
111	-0.34	-0.24	-0.24	-0.24
112	-0.34	-0.24	-0.24	-0.24
113	-0.34	-0.24	-0.24	-0.24
114	-0.34	-0.24	-0.24	-0.24
115	-0.34	-0.24	-0.24	-0.24
116	-0.34	-0.24	-0.24	-0.24
117	-0.34	-0.24	-0.24	-0.24
118	-0.34	-0.24	-0.24	-0.24
119	-0.34	-0.24	-0.24	-0.24
120	-0.34	-0.24	-0.24	-0.24

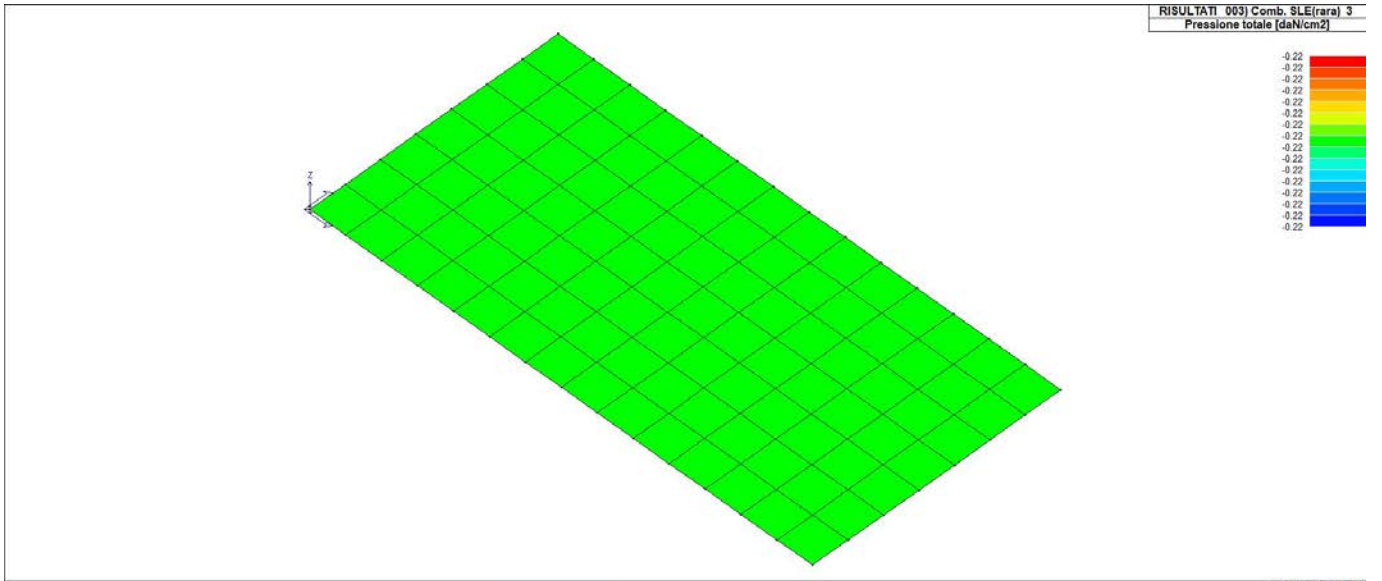
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...
	-0.34			
	-0.24			



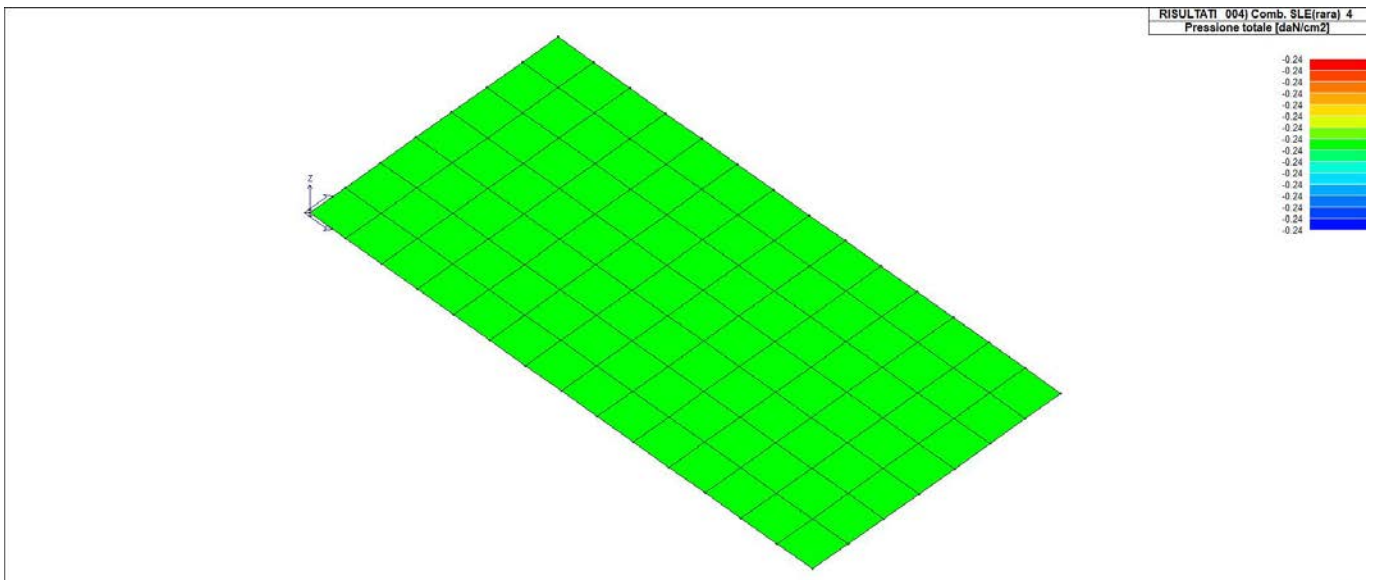
46_RIS_PRESSIONI_001_Comb. SLU A1 1



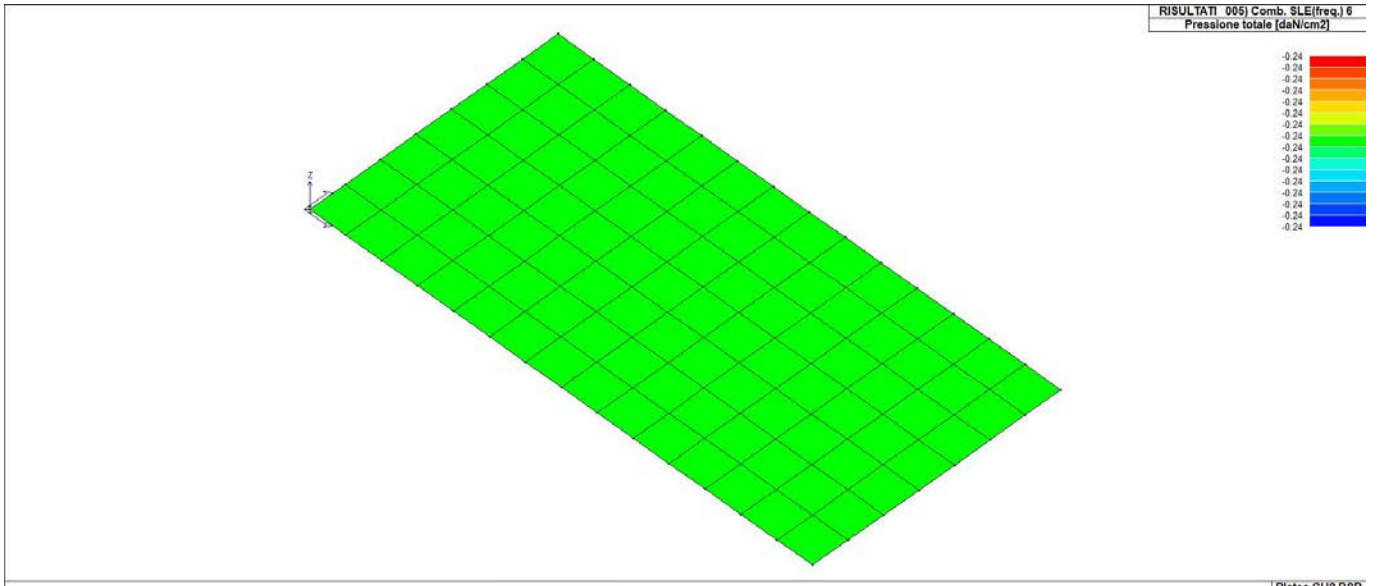
46_RIS_PRESSIONI_002_Comb. SLU A1 2



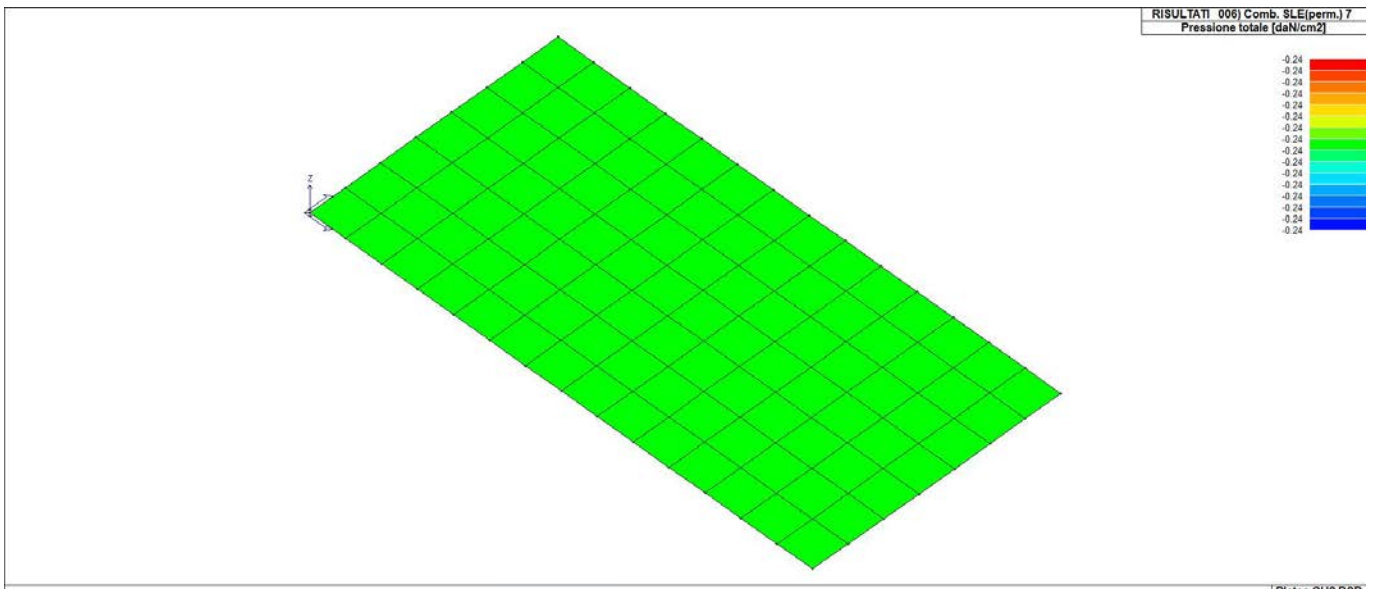
46_RIS_PRESSIONI_003_Comb. SLE(rara) 3



46_RIS_PRESSIONI_004_Comb. SLE(rara) 4



46_RIS_PRESSIONI_005_Comb. SLE(freq.) 6



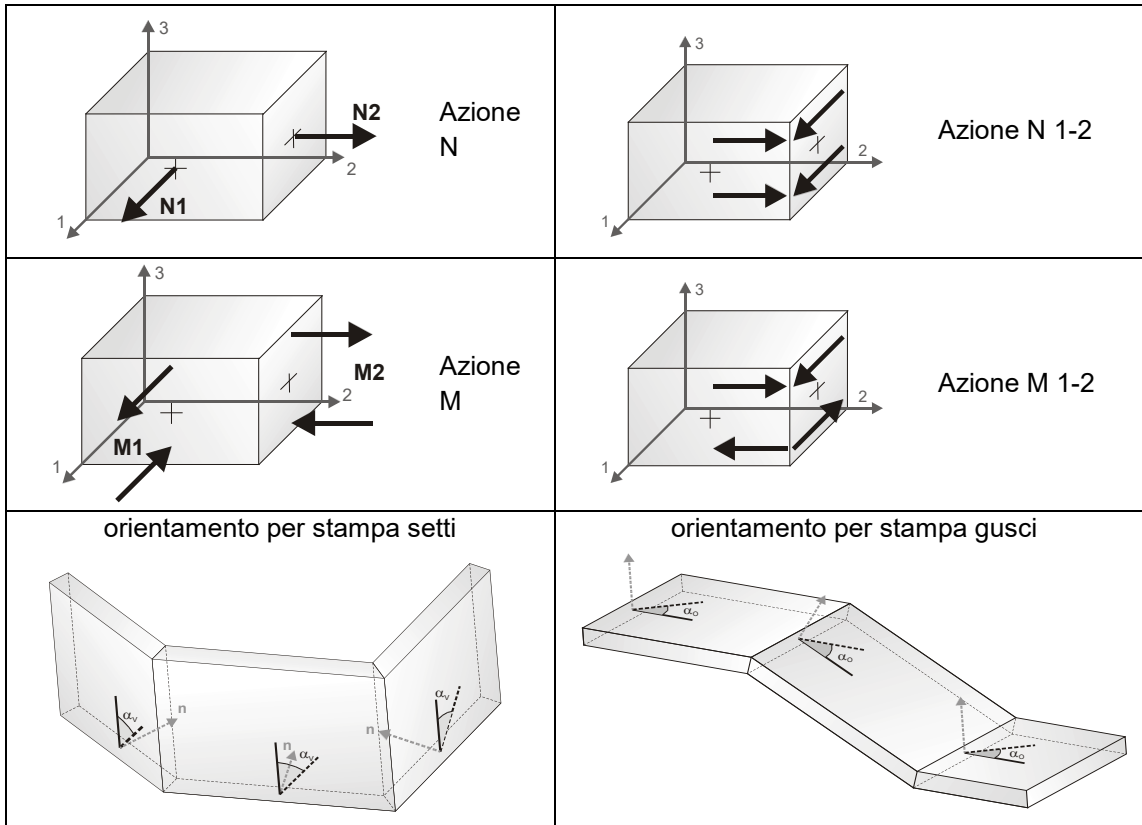
46_RIS_PRESSIONI_006_Comb. SLE(perm.) 7

RISULTATI ELEMENTI TIPO SHELL

LEGENDA RISULTATI ELEMENTI TIPO SHELL

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

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



In particolare vengono riportati in ogni nodo di un elemento per ogni combinazione:

tensione di Von Mises	(valore riassuntivo del complessivo stato di sollecitazione)
N max	sforzo membranale principale massimo
N min	sforzo membranale principale minimo
M max	sforzo flessionale principale massimo
M min	sforzo flessionale principale minimo
N1	N2
N1-2	M1
M2	M1-2
sforzi membranali e flessionali in direzione locale 1 e 2 dell'elemento (lo sforzo 2-1 è uguale allo sforzo 1-2 per la reciprocità delle tensioni tangenziali)	

I suddetti risultati possono a scelta del progettista essere preceduti o sostituiti da valori di sollecitazione non più riferiti al sistema locale dell'elemento ma al sistema globale.

In questo caso gli elementi vengono raggruppati in gruppi (M_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi. I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di α_o attorno all'asse Z per i gusci e ruotata di α_v attorno alla normale (che per definizione è orizzontale) al piano del setto.

Per i setti, in particolare, se α_v è zero, l'asse '1-1 rappresenta la verticale e l'asse '2-2 l'orizzontale contenuta nel setto.

Le azioni sui setti possono essere espresse anche con formato macro, cioè riferite all'intero macroelemento.

In particolare vengono riportati per ogni quota Z dei nodi e per ogni combinazione i seguenti valori:

N memb.	Azione membranale complessiva agente sulla parete in direzione Z
V memb.	Azione complessiva di taglio agente nel piano del macroelemento
V orto	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
M memb.	Azione flessionale complessiva agente nel piano del macroelemento
M orto	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
T	Azione torsionale complessiva agente nel piano orizzontale

Macro	Tipo	Angolo 1-X (gradi)
1	Guscio	0.0

M_G	Cmb	Nodo	N max daN/cm	N min daN/cm	N 1 daN/cm	N 2 daN/cm	N 1-2 daN/cm	M max daN	M min daN	M 1 daN	M 2 daN	M 1-2 daN
1	2	1						1.38e-04	6.92e-06	7.37e-05	7.11e-05	6.54e-05
1	2	2						1.38e-04	6.92e-06	7.37e-05	7.11e-05	-6.54e-05
1	2	3						1.38e-04	6.92e-06	7.37e-05	7.11e-05	6.54e-05
1	2	4						1.38e-04	6.92e-06	7.37e-05	7.11e-05	-6.54e-05
1	2	5						3.14e-04	-2.12e-05	-1.95e-05	3.12e-04	2.39e-05
1	2	6						5.23e-04	4.12e-04	4.65e-04	4.71e-04	5.57e-05
1	2	7						3.10e-04	-2.04e-05	3.08e-04	-1.85e-05	2.48e-05
1	2	8						6.30e-04	-1.12e-05	-1.12e-05	6.30e-04	
1	2	9						7.56e-04	5.13e-04	5.16e-04	7.53e-04	2.66e-05
1	2	10						7.82e-04	-1.17e-05	-1.17e-05	7.82e-04	
1	2	11						9.03e-04	5.35e-04	5.35e-04	9.03e-04	7.83e-06
1	2	12						7.82e-04	-1.17e-05	-1.17e-05	7.82e-04	
1	2	13						9.03e-04	5.35e-04	5.35e-04	9.03e-04	-7.83e-06
1	2	14						6.30e-04	-1.12e-05	-1.12e-05	6.30e-04	
1	2	15						7.56e-04	5.13e-04	5.16e-04	7.53e-04	-2.66e-05
1	2	16						3.14e-04	-2.12e-05	-1.95e-05	3.12e-04	-2.39e-05
1	2	17						5.23e-04	4.12e-04	4.65e-04	4.71e-04	-5.57e-05
1	2	18						3.10e-04	-2.04e-05	3.08e-04	-1.85e-05	-2.48e-05
1	2	19						7.46e-04	5.18e-04	7.42e-04	5.22e-04	2.83e-05
1	2	20						6.21e-04	-7.36e-06	6.21e-04	-7.36e-06	1.92e-06
1	2	21						8.57e-04	8.04e-04	8.24e-04	8.37e-04	2.55e-05
1	2	22						9.91e-04	8.59e-04	8.60e-04	9.90e-04	9.20e-06
1	2	23						9.91e-04	8.59e-04	8.60e-04	9.90e-04	-9.20e-06
1	2	24						8.57e-04	8.04e-04	8.24e-04	8.37e-04	-2.55e-05
1	2	25						7.46e-04	5.18e-04	7.42e-04	5.22e-04	-2.83e-05
1	2	26						6.21e-04	-7.36e-06	6.21e-04	-7.36e-06	-1.92e-06
1	2	27						9.21e-04	5.43e-04	9.21e-04	5.44e-04	1.36e-05
1	2	28						8.04e-04	-5.54e-06	8.04e-04	-5.54e-06	
1	2	29						1.00e-03	8.81e-04	1.00e-03	8.83e-04	1.55e-05
1	2	30						1.05e-03	1.04e-03	1.04e-03	1.04e-03	6.36e-06
1	2	31						1.05e-03	1.04e-03	1.04e-03	1.04e-03	-6.36e-06
1	2	32						1.00e-03	8.81e-04	1.00e-03	8.83e-04	-1.55e-05
1	2	33						9.21e-04	5.43e-04	9.21e-04	5.44e-04	-1.36e-05
1	2	34						8.04e-04	-5.54e-06	8.04e-04	-5.54e-06	
1	2	35						1.02e-03	5.54e-04	1.02e-03	5.54e-04	6.15e-06
1	2	36						9.04e-04	-3.80e-06	9.04e-04	-3.80e-06	
1	2	37						1.10e-03	9.05e-04	1.10e-03	9.06e-04	8.06e-06
1	2	38						1.13e-03	1.07e-03	1.13e-03	1.07e-03	3.51e-06
1	2	39						1.13e-03	1.07e-03	1.13e-03	1.07e-03	-3.51e-06
1	2	40						1.10e-03	9.05e-04	1.10e-03	9.06e-04	-8.06e-06
1	2	41						1.02e-03	5.54e-04	1.02e-03	5.54e-04	-6.15e-06
1	2	42						9.04e-04	-3.80e-06	9.04e-04	-3.80e-06	
1	2	43						1.06e-03	5.58e-04	1.06e-03	5.58e-04	2.72e-06
1	2	44						9.51e-04	-2.30e-06	9.51e-04	-2.30e-06	
1	2	45						1.14e-03	9.16e-04	1.14e-03	9.16e-04	3.74e-06
1	2	46						1.18e-03	1.09e-03	1.18e-03	1.09e-03	1.68e-06
1	2	47						1.18e-03	1.09e-03	1.18e-03	1.09e-03	-1.68e-06
1	2	48						1.14e-03	9.16e-04	1.14e-03	9.16e-04	-3.74e-06
1	2	49						1.06e-03	5.58e-04	1.06e-03	5.58e-04	-2.72e-06
1	2	50						9.51e-04	-2.30e-06	9.51e-04	-2.30e-06	
1	2	51						1.08e-03	5.60e-04	1.08e-03	5.60e-04	1.06e-06
1	2	52						9.69e-04	-1.32e-06	9.69e-04	-1.32e-06	
1	2	53						1.16e-03	9.20e-04	1.16e-03	9.20e-04	1.42e-06
1	2	54						1.19e-03	1.09e-03	1.19e-03	1.09e-03	
1	2	55						1.19e-03	1.09e-03	1.19e-03	1.09e-03	
1	2	56						1.16e-03	9.20e-04	1.16e-03	9.20e-04	-1.42e-06
1	2	57						1.08e-03	5.60e-04	1.08e-03	5.60e-04	-1.06e-06

1	2	58	9.69e-04	-1.32e-06	9.69e-04	-1.32e-06	
1	2	59	1.09e-03	5.60e-04	1.09e-03	5.60e-04	
1	2	60	9.74e-04		9.74e-04		
1	2	61	1.16e-03	9.20e-04	1.16e-03	9.20e-04	
1	2	62	1.20e-03	1.10e-03	1.20e-03	1.10e-03	
1	2	63	1.20e-03	1.10e-03	1.20e-03	1.10e-03	
1	2	64	1.16e-03	9.20e-04	1.16e-03	9.20e-04	
1	2	65	1.09e-03	5.60e-04	1.09e-03	5.60e-04	
1	2	66	9.74e-04		9.74e-04		
1	2	67	1.08e-03	5.60e-04	1.08e-03	5.60e-04	-1.06e-06
1	2	68	9.69e-04	-1.32e-06	9.69e-04	-1.32e-06	
1	2	69	1.16e-03	9.20e-04	1.16e-03	9.20e-04	-1.42e-06
1	2	70	1.19e-03	1.09e-03	1.19e-03	1.09e-03	
1	2	71	1.19e-03	1.09e-03	1.19e-03	1.09e-03	
1	2	72	1.16e-03	9.20e-04	1.16e-03	9.20e-04	1.42e-06
1	2	73	1.08e-03	5.60e-04	1.08e-03	5.60e-04	1.06e-06
1	2	74	9.69e-04	-1.32e-06	9.69e-04	-1.32e-06	
1	2	75	1.06e-03	5.58e-04	1.06e-03	5.58e-04	-2.72e-06
1	2	76	9.51e-04	-2.30e-06	9.51e-04	-2.30e-06	
1	2	77	1.14e-03	9.16e-04	1.14e-03	9.16e-04	-3.74e-06
1	2	78	1.18e-03	1.09e-03	1.18e-03	1.09e-03	-1.68e-06
1	2	79	1.18e-03	1.09e-03	1.18e-03	1.09e-03	1.68e-06
1	2	80	1.14e-03	9.16e-04	1.14e-03	9.16e-04	3.74e-06
1	2	81	1.06e-03	5.58e-04	1.06e-03	5.58e-04	2.72e-06
1	2	82	9.51e-04	-2.30e-06	9.51e-04	-2.30e-06	
1	2	83	1.02e-03	5.54e-04	1.02e-03	5.54e-04	-6.15e-06
1	2	84	9.04e-04	-3.80e-06	9.04e-04	-3.80e-06	
1	2	85	1.10e-03	9.05e-04	1.10e-03	9.06e-04	-8.06e-06
1	2	86	1.13e-03	1.07e-03	1.13e-03	1.07e-03	-3.51e-06
1	2	87	1.13e-03	1.07e-03	1.13e-03	1.07e-03	3.51e-06
1	2	88	1.10e-03	9.05e-04	1.10e-03	9.06e-04	8.06e-06
1	2	89	1.02e-03	5.54e-04	1.02e-03	5.54e-04	6.15e-06
1	2	90	9.04e-04	-3.80e-06	9.04e-04	-3.80e-06	
1	2	91	9.21e-04	5.43e-04	9.21e-04	5.44e-04	-1.36e-05
1	2	92	8.04e-04	-5.54e-06	8.04e-04	-5.54e-06	
1	2	93	1.00e-03	8.81e-04	1.00e-03	8.83e-04	-1.55e-05
1	2	94	1.05e-03	1.04e-03	1.04e-03	1.04e-03	-6.36e-06
1	2	95	1.05e-03	1.04e-03	1.04e-03	1.04e-03	6.36e-06
1	2	96	1.00e-03	8.81e-04	1.00e-03	8.83e-04	1.55e-05
1	2	97	9.21e-04	5.43e-04	9.21e-04	5.44e-04	1.36e-05
1	2	98	8.04e-04	-5.54e-06	8.04e-04	-5.54e-06	
1	2	99	7.46e-04	5.18e-04	7.42e-04	5.22e-04	-2.83e-05
1	2	100	6.21e-04	-7.36e-06	6.21e-04	-7.36e-06	-1.92e-06
1	2	101	8.57e-04	8.04e-04	8.24e-04	8.37e-04	-2.55e-05
1	2	102	9.91e-04	8.59e-04	8.60e-04	9.90e-04	-9.20e-06
1	2	103	9.91e-04	8.59e-04	8.60e-04	9.90e-04	9.20e-06
1	2	104	8.57e-04	8.04e-04	8.24e-04	8.37e-04	2.55e-05
1	2	105	7.46e-04	5.18e-04	7.42e-04	5.22e-04	2.83e-05
1	2	106	6.21e-04	-7.36e-06	6.21e-04	-7.36e-06	1.92e-06
1	2	107	5.23e-04	4.12e-04	4.65e-04	4.71e-04	-5.57e-05
1	2	108	3.10e-04	-2.04e-05	3.08e-04	-1.85e-05	-2.48e-05
1	2	109	7.56e-04	5.13e-04	5.16e-04	7.53e-04	-2.66e-05
1	2	110	9.03e-04	5.35e-04	5.35e-04	9.03e-04	-7.83e-06
1	2	111	9.03e-04	5.35e-04	5.35e-04	9.03e-04	7.83e-06
1	2	112	7.56e-04	5.13e-04	5.16e-04	7.53e-04	2.66e-05
1	2	113	5.23e-04	4.12e-04	4.65e-04	4.71e-04	5.57e-05
1	2	114	3.10e-04	-2.04e-05	3.08e-04	-1.85e-05	2.48e-05
1	2	115	3.14e-04	-2.12e-05	-1.95e-05	3.12e-04	-2.39e-05
1	2	116	6.30e-04	-1.12e-05	-1.12e-05	6.30e-04	
1	2	117	7.82e-04	-1.17e-05	-1.17e-05	7.82e-04	
1	2	118	7.82e-04	-1.17e-05	-1.17e-05	7.82e-04	
1	2	119	6.30e-04	-1.12e-05	-1.12e-05	6.30e-04	
1	2	120	3.14e-04	-2.12e-05	-1.95e-05	3.12e-04	2.39e-05
1	4	1	9.73e-05	4.83e-06	5.20e-05	5.01e-05	4.62e-05
1	4	2	9.73e-05	4.83e-06	5.20e-05	5.01e-05	-4.62e-05
1	4	3	9.73e-05	4.83e-06	5.20e-05	5.01e-05	4.62e-05
1	4	4	9.73e-05	4.83e-06	5.20e-05	5.01e-05	-4.62e-05
1	4	5	2.22e-04	-1.49e-05	-1.37e-05	2.20e-04	1.68e-05
1	4	6	3.69e-04	2.90e-04	3.28e-04	3.32e-04	3.92e-05
1	4	7	2.18e-04	-1.44e-05	2.17e-04	-1.30e-05	1.75e-05
1	4	8	4.44e-04	-7.88e-06	-7.88e-06	4.44e-04	
1	4	9	5.33e-04	3.62e-04	3.64e-04	5.31e-04	1.87e-05
1	4	10	5.52e-04	-8.24e-06	-8.24e-06	5.52e-04	
1	4	11	6.36e-04	3.77e-04	3.77e-04	6.36e-04	5.50e-06
1	4	12	5.52e-04	-8.24e-06	-8.24e-06	5.52e-04	
1	4	13	6.36e-04	3.77e-04	3.77e-04	6.36e-04	-5.50e-06
1	4	14	4.44e-04	-7.88e-06	-7.88e-06	4.44e-04	

1	4	15	5.33e-04	3.62e-04	3.64e-04	5.31e-04	-1.87e-05
1	4	16	2.22e-04	-1.49e-05	-1.37e-05	2.20e-04	-1.68e-05
1	4	17	3.69e-04	2.90e-04	3.28e-04	3.32e-04	-3.92e-05
1	4	18	2.18e-04	-1.44e-05	2.17e-04	-1.30e-05	-1.75e-05
1	4	19	5.26e-04	3.65e-04	5.23e-04	3.68e-04	1.99e-05
1	4	20	4.38e-04	-5.19e-06	4.38e-04	-5.19e-06	1.33e-06
1	4	21	6.04e-04	5.67e-04	5.81e-04	5.90e-04	1.79e-05
1	4	22	6.98e-04	6.06e-04	6.06e-04	6.98e-04	6.47e-06
1	4	23	6.98e-04	6.06e-04	6.06e-04	6.98e-04	-6.47e-06
1	4	24	6.04e-04	5.67e-04	5.81e-04	5.90e-04	-1.79e-05
1	4	25	5.26e-04	3.65e-04	5.23e-04	3.68e-04	-1.99e-05
1	4	26	4.38e-04	-5.19e-06	4.38e-04	-5.19e-06	-1.33e-06
1	4	27	6.50e-04	3.83e-04	6.49e-04	3.83e-04	9.52e-06
1	4	28	5.67e-04	-3.91e-06	5.67e-04	-3.91e-06	
1	4	29	7.07e-04	6.21e-04	7.06e-04	6.22e-04	1.09e-05
1	4	30	7.40e-04	7.31e-04	7.34e-04	7.37e-04	4.47e-06
1	4	31	7.40e-04	7.31e-04	7.34e-04	7.37e-04	-4.47e-06
1	4	32	7.07e-04	6.21e-04	7.06e-04	6.22e-04	-1.09e-05
1	4	33	6.50e-04	3.83e-04	6.49e-04	3.83e-04	-9.52e-06
1	4	34	5.67e-04	-3.91e-06	5.67e-04	-3.91e-06	
1	4	35	7.18e-04	3.90e-04	7.18e-04	3.90e-04	4.31e-06
1	4	36	6.37e-04	-2.68e-06	6.37e-04	-2.68e-06	
1	4	37	7.73e-04	6.38e-04	7.72e-04	6.38e-04	5.67e-06
1	4	38	8.00e-04	7.57e-04	8.00e-04	7.58e-04	2.47e-06
1	4	39	8.00e-04	7.57e-04	8.00e-04	7.58e-04	-2.47e-06
1	4	40	7.73e-04	6.38e-04	7.72e-04	6.38e-04	-5.67e-06
1	4	41	7.18e-04	3.90e-04	7.18e-04	3.90e-04	-4.31e-06
1	4	42	6.37e-04	-2.68e-06	6.37e-04	-2.68e-06	
1	4	43	7.50e-04	3.94e-04	7.50e-04	3.94e-04	1.90e-06
1	4	44	6.70e-04	-1.63e-06	6.70e-04	-1.63e-06	
1	4	45	8.03e-04	6.45e-04	8.03e-04	6.45e-04	2.62e-06
1	4	46	8.30e-04	7.68e-04	8.30e-04	7.68e-04	1.18e-06
1	4	47	8.30e-04	7.68e-04	8.30e-04	7.68e-04	-1.18e-06
1	4	48	8.03e-04	6.45e-04	8.03e-04	6.45e-04	-2.62e-06
1	4	49	7.50e-04	3.94e-04	7.50e-04	3.94e-04	-1.90e-06
1	4	50	6.70e-04	-1.63e-06	6.70e-04	-1.63e-06	
1	4	51	7.63e-04	3.95e-04	7.63e-04	3.95e-04	
1	4	52	6.83e-04		6.83e-04		
1	4	53	8.15e-04	6.48e-04	8.15e-04	6.48e-04	
1	4	54	8.41e-04	7.72e-04	8.41e-04	7.72e-04	
1	4	55	8.41e-04	7.72e-04	8.41e-04	7.72e-04	
1	4	56	8.15e-04	6.48e-04	8.15e-04	6.48e-04	
1	4	57	7.63e-04	3.95e-04	7.63e-04	3.95e-04	
1	4	58	6.83e-04		6.83e-04		
1	4	59	7.66e-04	3.95e-04	7.66e-04	3.95e-04	
1	4	60	6.86e-04		6.86e-04		
1	4	61	8.18e-04	6.49e-04	8.18e-04	6.49e-04	
1	4	62	8.43e-04	7.73e-04	8.43e-04	7.73e-04	
1	4	63	8.43e-04	7.73e-04	8.43e-04	7.73e-04	
1	4	64	8.18e-04	6.49e-04	8.18e-04	6.49e-04	
1	4	65	7.66e-04	3.95e-04	7.66e-04	3.95e-04	
1	4	66	6.86e-04		6.86e-04		
1	4	67	7.63e-04	3.95e-04	7.63e-04	3.95e-04	
1	4	68	6.83e-04		6.83e-04		
1	4	69	8.15e-04	6.48e-04	8.15e-04	6.48e-04	
1	4	70	8.41e-04	7.72e-04	8.41e-04	7.72e-04	
1	4	71	8.41e-04	7.72e-04	8.41e-04	7.72e-04	
1	4	72	8.15e-04	6.48e-04	8.15e-04	6.48e-04	
1	4	73	7.63e-04	3.95e-04	7.63e-04	3.95e-04	
1	4	74	6.83e-04		6.83e-04		
1	4	75	7.50e-04	3.94e-04	7.50e-04	3.94e-04	-1.90e-06
1	4	76	6.70e-04	-1.63e-06	6.70e-04	-1.63e-06	
1	4	77	8.03e-04	6.45e-04	8.03e-04	6.45e-04	-2.62e-06
1	4	78	8.30e-04	7.68e-04	8.30e-04	7.68e-04	-1.18e-06
1	4	79	8.30e-04	7.68e-04	8.30e-04	7.68e-04	1.18e-06
1	4	80	8.03e-04	6.45e-04	8.03e-04	6.45e-04	2.62e-06
1	4	81	7.50e-04	3.94e-04	7.50e-04	3.94e-04	1.90e-06
1	4	82	6.70e-04	-1.63e-06	6.70e-04	-1.63e-06	
1	4	83	7.18e-04	3.90e-04	7.18e-04	3.90e-04	-4.31e-06
1	4	84	6.37e-04	-2.68e-06	6.37e-04	-2.68e-06	
1	4	85	7.73e-04	6.38e-04	7.72e-04	6.38e-04	-5.67e-06
1	4	86	8.00e-04	7.57e-04	8.00e-04	7.58e-04	-2.47e-06
1	4	87	8.00e-04	7.57e-04	8.00e-04	7.58e-04	2.47e-06
1	4	88	7.73e-04	6.38e-04	7.72e-04	6.38e-04	5.67e-06
1	4	89	7.18e-04	3.90e-04	7.18e-04	3.90e-04	4.31e-06
1	4	90	6.37e-04	-2.68e-06	6.37e-04	-2.68e-06	
1	4	91	6.50e-04	3.83e-04	6.49e-04	3.83e-04	-9.52e-06

1	4	92	5.67e-04	-3.91e-06	5.67e-04	-3.91e-06		
1	4	93	7.07e-04	6.21e-04	7.06e-04	6.22e-04	-1.09e-05	
1	4	94	7.40e-04	7.31e-04	7.34e-04	7.37e-04	-4.47e-06	
1	4	95	7.40e-04	7.31e-04	7.34e-04	7.37e-04	4.47e-06	
1	4	96	7.07e-04	6.21e-04	7.06e-04	6.22e-04	1.09e-05	
1	4	97	6.50e-04	3.83e-04	6.49e-04	3.83e-04	9.52e-06	
1	4	98	5.67e-04	-3.91e-06	5.67e-04	-3.91e-06		
1	4	99	5.26e-04	3.65e-04	5.23e-04	3.68e-04	-1.99e-05	
1	4	100	4.38e-04	-5.19e-06	4.38e-04	-5.19e-06	-1.33e-06	
1	4	101	6.04e-04	5.67e-04	5.81e-04	5.90e-04	-1.79e-05	
1	4	102	6.98e-04	6.06e-04	6.06e-04	6.98e-04	-6.47e-06	
1	4	103	6.98e-04	6.06e-04	6.06e-04	6.98e-04	6.47e-06	
1	4	104	6.04e-04	5.67e-04	5.81e-04	5.90e-04	1.79e-05	
1	4	105	5.26e-04	3.65e-04	5.23e-04	3.68e-04	1.99e-05	
1	4	106	4.38e-04	-5.19e-06	4.38e-04	-5.19e-06	1.33e-06	
1	4	107	3.69e-04	2.90e-04	3.28e-04	3.32e-04	-3.92e-04	
1	4	108	2.18e-04	-1.44e-05	2.17e-04	-1.30e-05	-1.75e-05	
1	4	109	5.33e-04	3.62e-04	3.64e-04	5.31e-04	-1.87e-05	
1	4	110	6.36e-04	3.77e-04	3.77e-04	6.36e-04	-5.50e-06	
1	4	111	6.36e-04	3.77e-04	3.77e-04	6.36e-04	5.50e-06	
1	4	112	5.33e-04	3.62e-04	3.64e-04	5.31e-04	1.87e-05	
1	4	113	3.69e-04	2.90e-04	3.28e-04	3.32e-04	3.92e-05	
1	4	114	2.18e-04	-1.44e-05	2.17e-04	-1.30e-05	1.75e-05	
1	4	115	2.22e-04	-1.49e-05	-1.37e-05	2.20e-04	-1.68e-05	
1	4	116	4.44e-04	-7.88e-06	-7.88e-06	4.44e-04		
1	4	117	5.52e-04	-8.24e-06	-8.24e-06	5.52e-04		
1	4	118	5.52e-04	-8.24e-06	-8.24e-06	5.52e-04		
1	4	119	4.44e-04	-7.88e-06	-7.88e-06	4.44e-04		
1	4	120	2.22e-04	-1.49e-05	-1.37e-05	2.20e-04	1.68e-05	
1	5	1	9.65e-05	4.79e-06	5.16e-05	4.97e-05	4.58e-05	
1	5	2	9.65e-05	4.79e-06	5.16e-05	4.97e-05	-4.58e-05	
1	5	3	9.65e-05	4.79e-06	5.16e-05	4.97e-05	4.58e-05	
1	5	4	9.65e-05	4.79e-06	5.16e-05	4.97e-05	-4.58e-05	
1	5	5	2.20e-04	-1.48e-05	-1.36e-05	2.19e-04	1.66e-05	
1	5	6	3.66e-04	2.88e-04	3.25e-04	3.29e-04	3.88e-05	
1	5	7	2.17e-04	-1.42e-05	2.15e-04	-1.29e-05	1.73e-05	
1	5	8	4.41e-04	-7.81e-06	-7.81e-06	4.41e-04		
1	5	9	5.29e-04	3.59e-04	3.61e-04	5.26e-04	1.85e-05	
1	5	10	5.47e-04	-8.18e-06	-8.18e-06	5.47e-04		
1	5	11	6.31e-04	3.74e-04	3.74e-04	6.31e-04	5.45e-06	
1	5	12	5.47e-04	-8.18e-06	-8.18e-06	5.47e-04		
1	5	13	6.31e-04	3.74e-04	3.74e-04	6.31e-04	-5.45e-06	
1	5	14	4.41e-04	-7.81e-06	-7.81e-06	4.41e-04		
1	5	15	5.29e-04	3.59e-04	3.61e-04	5.26e-04	-1.85e-05	
1	5	16	2.20e-04	-1.48e-05	-1.36e-05	2.19e-04	-1.66e-05	
1	5	17	3.66e-04	2.88e-04	3.25e-04	3.29e-04	-3.88e-05	
1	5	18	2.17e-04	-1.42e-05	2.15e-04	-1.29e-05	-1.73e-05	
1	5	19	5.21e-04	3.62e-04	5.19e-04	3.65e-04	1.97e-05	
1	5	20	4.34e-04	-5.15e-06	4.34e-04	-5.15e-06	1.31e-06	
1	5	21	5.99e-04	5.62e-04	5.76e-04	5.85e-04	1.78e-05	
1	5	22	6.92e-04	6.01e-04	6.01e-04	6.92e-04	6.42e-06	
1	5	23	6.92e-04	6.01e-04	6.01e-04	6.92e-04	-6.42e-06	
1	5	24	5.99e-04	5.62e-04	5.76e-04	5.85e-04	-1.78e-05	
1	5	25	5.21e-04	3.62e-04	5.19e-04	3.65e-04	-1.97e-05	
1	5	26	4.34e-04	-5.15e-06	4.34e-04	-5.15e-06	-1.31e-06	
1	5	27	6.44e-04	3.80e-04	6.44e-04	3.80e-04	9.43e-06	
1	5	28	5.62e-04	-3.88e-06	5.62e-04	-3.88e-06		
1	5	29	7.01e-04	6.16e-04	7.00e-04	6.17e-04	1.08e-05	
1	5	30	7.34e-04	7.25e-04	7.28e-04	7.30e-04	4.43e-06	
1	5	31	7.34e-04	7.25e-04	7.28e-04	7.30e-04	-4.43e-06	
1	5	32	7.01e-04	6.16e-04	7.00e-04	6.17e-04	-1.08e-05	
1	5	33	6.44e-04	3.80e-04	6.44e-04	3.80e-04	-9.43e-06	
1	5	34	5.62e-04	-3.88e-06	5.62e-04	-3.88e-06		
1	5	35	7.12e-04	3.87e-04	7.12e-04	3.87e-04	4.27e-06	
1	5	36	6.32e-04	-2.66e-06	6.32e-04	-2.66e-06		
1	5	37	7.66e-04	6.33e-04	7.66e-04	6.33e-04	5.61e-06	
1	5	38	7.93e-04	7.51e-04	7.93e-04	7.51e-04	2.44e-06	
1	5	39	7.93e-04	7.51e-04	7.93e-04	7.51e-04	-2.45e-06	
1	5	40	7.66e-04	6.33e-04	7.66e-04	6.33e-04	-5.62e-06	
1	5	41	7.12e-04	3.87e-04	7.12e-04	3.87e-04	-4.27e-06	
1	5	42	6.32e-04	-2.66e-06	6.32e-04	-2.66e-06		
1	5	43	7.44e-04	3.90e-04	7.44e-04	3.90e-04	1.88e-06	
1	5	44	6.65e-04	-1.61e-06	6.65e-04	-1.61e-06		
1	5	45	7.97e-04	6.40e-04	7.96e-04	6.40e-04	2.60e-06	
1	5	46	8.23e-04	7.61e-04	8.23e-04	7.61e-04	1.17e-06	
1	5	47	8.23e-04	7.61e-04	8.23e-04	7.61e-04	-1.17e-06	
1	5	48	7.97e-04	6.40e-04	7.96e-04	6.40e-04	-2.60e-06	

1	5	49	7.44e-04	3.90e-04	7.44e-04	3.90e-04	-1.88e-06
1	5	50	6.65e-04	-1.61e-06	6.65e-04	-1.61e-06	
1	5	51	7.57e-04	3.91e-04	7.57e-04	3.91e-04	
1	5	52	6.78e-04		6.78e-04		
1	5	53	8.08e-04	6.43e-04	8.08e-04	6.43e-04	
1	5	54	8.34e-04	7.65e-04	8.34e-04	7.65e-04	
1	5	55	8.34e-04	7.65e-04	8.34e-04	7.65e-04	
1	5	56	8.08e-04	6.43e-04	8.08e-04	6.43e-04	
1	5	57	7.57e-04	3.91e-04	7.57e-04	3.91e-04	
1	5	58	6.78e-04		6.78e-04		
1	5	59	7.60e-04	3.92e-04	7.60e-04	3.92e-04	
1	5	60	6.81e-04		6.81e-04		
1	5	61	8.11e-04	6.43e-04	8.11e-04	6.43e-04	
1	5	62	8.36e-04	7.66e-04	8.36e-04	7.66e-04	
1	5	63	8.36e-04	7.66e-04	8.36e-04	7.66e-04	
1	5	64	8.11e-04	6.43e-04	8.11e-04	6.43e-04	
1	5	65	7.60e-04	3.92e-04	7.60e-04	3.92e-04	
1	5	66	6.81e-04		6.81e-04		
1	5	67	7.57e-04	3.91e-04	7.57e-04	3.91e-04	
1	5	68	6.78e-04		6.78e-04		
1	5	69	8.08e-04	6.43e-04	8.08e-04	6.43e-04	
1	5	70	8.34e-04	7.65e-04	8.34e-04	7.65e-04	
1	5	71	8.34e-04	7.65e-04	8.34e-04	7.65e-04	
1	5	72	8.08e-04	6.43e-04	8.08e-04	6.43e-04	
1	5	73	7.57e-04	3.91e-04	7.57e-04	3.91e-04	
1	5	74	6.78e-04		6.78e-04		
1	5	75	7.44e-04	3.90e-04	7.44e-04	3.90e-04	-1.88e-06
1	5	76	6.65e-04	-1.61e-06	6.65e-04	-1.61e-06	
1	5	77	7.97e-04	6.40e-04	7.96e-04	6.40e-04	-2.60e-06
1	5	78	8.23e-04	7.61e-04	8.23e-04	7.61e-04	-1.17e-06
1	5	79	8.23e-04	7.61e-04	8.23e-04	7.61e-04	1.17e-06
1	5	80	7.97e-04	6.40e-04	7.96e-04	6.40e-04	2.60e-06
1	5	81	7.44e-04	3.90e-04	7.44e-04	3.90e-04	1.88e-06
1	5	82	6.65e-04	-1.61e-06	6.65e-04	-1.61e-06	
1	5	83	7.12e-04	3.87e-04	7.12e-04	3.87e-04	-4.27e-06
1	5	84	6.32e-04	-2.66e-06	6.32e-04	-2.66e-06	
1	5	85	7.66e-04	6.33e-04	7.66e-04	6.33e-04	-5.62e-06
1	5	86	7.93e-04	7.51e-04	7.93e-04	7.51e-04	-2.45e-06
1	5	87	7.93e-04	7.51e-04	7.93e-04	7.51e-04	2.44e-06
1	5	88	7.66e-04	6.33e-04	7.66e-04	6.33e-04	5.62e-06
1	5	89	7.12e-04	3.87e-04	7.12e-04	3.87e-04	4.27e-06
1	5	90	6.32e-04	-2.66e-06	6.32e-04	-2.66e-06	
1	5	91	6.44e-04	3.80e-04	6.44e-04	3.80e-04	-9.43e-06
1	5	92	5.62e-04	-3.88e-06	5.62e-04	-3.88e-06	
1	5	93	7.01e-04	6.16e-04	7.00e-04	6.17e-04	-1.08e-05
1	5	94	7.34e-04	7.25e-04	7.28e-04	7.30e-04	-4.43e-06
1	5	95	7.34e-04	7.25e-04	7.28e-04	7.30e-04	4.43e-06
1	5	96	7.01e-04	6.16e-04	7.00e-04	6.17e-04	1.08e-05
1	5	97	6.44e-04	3.80e-04	6.44e-04	3.80e-04	9.43e-06
1	5	98	5.62e-04	-3.88e-06	5.62e-04	-3.88e-06	
1	5	99	5.21e-04	3.62e-04	5.19e-04	3.65e-04	-1.97e-05
1	5	100	4.34e-04	-5.15e-06	4.34e-04	-5.15e-06	-1.31e-06
1	5	101	5.99e-04	5.62e-04	5.76e-04	5.85e-04	-1.78e-05
1	5	102	6.92e-04	6.01e-04	6.01e-04	6.92e-04	-6.42e-06
1	5	103	6.92e-04	6.01e-04	6.01e-04	6.92e-04	6.42e-06
1	5	104	5.99e-04	5.62e-04	5.76e-04	5.85e-04	1.78e-05
1	5	105	5.21e-04	3.62e-04	5.19e-04	3.65e-04	1.97e-05
1	5	106	4.34e-04	-5.15e-06	4.34e-04	-5.15e-06	1.31e-06
1	5	107	3.66e-04	2.88e-04	3.25e-04	3.29e-04	-3.88e-05
1	5	108	2.17e-04	-1.42e-05	2.15e-04	-1.29e-05	-1.73e-05
1	5	109	5.29e-04	3.59e-04	3.61e-04	5.26e-04	-1.85e-05
1	5	110	6.31e-04	3.74e-04	3.74e-04	6.31e-04	-5.45e-06
1	5	111	6.31e-04	3.74e-04	3.74e-04	6.31e-04	5.45e-06
1	5	112	5.29e-04	3.59e-04	3.61e-04	5.26e-04	1.85e-05
1	5	113	3.66e-04	2.88e-04	3.25e-04	3.29e-04	3.88e-05
1	5	114	2.17e-04	-1.42e-05	2.15e-04	-1.29e-05	1.73e-05
1	5	115	2.20e-04	-1.48e-05	-1.36e-05	2.19e-04	-1.66e-05
1	5	116	4.41e-04	-7.81e-06	-7.81e-06	4.41e-04	
1	5	117	5.47e-04	-8.18e-06	-8.18e-06	5.47e-04	
1	5	118	5.47e-04	-8.18e-06	-8.18e-06	5.47e-04	
1	5	119	4.41e-04	-7.81e-06	-7.81e-06	4.41e-04	
1	5	120	2.20e-04	-1.48e-05	-1.36e-05	2.19e-04	1.66e-05
1	6	1	9.57e-05	4.74e-06	5.11e-05	4.93e-05	4.55e-05
1	6	2	9.57e-05	4.74e-06	5.11e-05	4.93e-05	-4.55e-05
1	6	3	9.57e-05	4.74e-06	5.11e-05	4.93e-05	4.55e-05
1	6	4	9.57e-05	4.74e-06	5.11e-05	4.93e-05	-4.55e-05
1	6	5	2.18e-04	-1.47e-05	-1.35e-05	2.17e-04	1.65e-05

1	6	6	3.63e-04	2.86e-04	3.22e-04	3.26e-04	3.85e-05
1	6	7	2.15e-04	-1.41e-05	2.14e-04	-1.28e-05	1.71e-05
1	6	8	4.37e-04	-7.75e-06	-7.75e-06	4.37e-04	
1	6	9	5.24e-04	3.56e-04	3.58e-04	5.22e-04	1.83e-05
1	6	10	5.42e-04	-8.11e-06	-8.11e-06	5.42e-04	
1	6	11	6.26e-04	3.71e-04	3.71e-04	6.26e-04	5.40e-06
1	6	12	5.42e-04	-8.11e-06	-8.11e-06	5.42e-04	
1	6	13	6.26e-04	3.71e-04	3.71e-04	6.26e-04	-5.41e-06
1	6	14	4.37e-04	-7.75e-06	-7.75e-06	4.37e-04	
1	6	15	5.24e-04	3.56e-04	3.58e-04	5.22e-04	-1.83e-05
1	6	16	2.18e-04	-1.47e-05	-1.35e-05	2.17e-04	-1.65e-05
1	6	17	3.63e-04	2.86e-04	3.22e-04	3.26e-04	-3.85e-05
1	6	18	2.15e-04	-1.41e-05	2.14e-04	-1.28e-05	-1.71e-05
1	6	19	5.17e-04	3.59e-04	5.15e-04	3.62e-04	1.95e-05
1	6	20	4.31e-04	-5.11e-06	4.31e-04	-5.10e-06	1.29e-06
1	6	21	5.94e-04	5.57e-04	5.71e-04	5.80e-04	1.76e-05
1	6	22	6.87e-04	5.96e-04	5.96e-04	6.86e-04	6.36e-06
1	6	23	6.87e-04	5.96e-04	5.96e-04	6.86e-04	-6.36e-06
1	6	24	5.94e-04	5.57e-04	5.71e-04	5.80e-04	-1.76e-05
1	6	25	5.17e-04	3.59e-04	5.15e-04	3.62e-04	-1.95e-05
1	6	26	4.31e-04	-5.11e-06	4.31e-04	-5.11e-06	-1.29e-06
1	6	27	6.39e-04	3.77e-04	6.39e-04	3.77e-04	9.34e-06
1	6	28	5.57e-04	-3.84e-06	5.57e-04	-3.84e-06	
1	6	29	6.96e-04	6.11e-04	6.94e-04	6.12e-04	1.07e-05
1	6	30	7.28e-04	7.18e-04	7.22e-04	7.24e-04	4.39e-06
1	6	31	7.28e-04	7.18e-04	7.22e-04	7.24e-04	-4.39e-06
1	6	32	6.96e-04	6.11e-04	6.94e-04	6.12e-04	-1.07e-05
1	6	33	6.39e-04	3.77e-04	6.39e-04	3.77e-04	-9.34e-06
1	6	34	5.57e-04	-3.84e-06	5.57e-04	-3.84e-06	
1	6	35	7.06e-04	3.84e-04	7.06e-04	3.84e-04	4.22e-06
1	6	36	6.27e-04	-2.64e-06	6.27e-04	-2.64e-06	
1	6	37	7.60e-04	6.27e-04	7.60e-04	6.28e-04	5.56e-06
1	6	38	7.87e-04	7.45e-04	7.86e-04	7.45e-04	2.42e-06
1	6	39	7.87e-04	7.45e-04	7.86e-04	7.45e-04	-2.42e-06
1	6	40	7.60e-04	6.27e-04	7.60e-04	6.28e-04	-5.56e-06
1	6	41	7.06e-04	3.84e-04	7.06e-04	3.84e-04	-4.22e-06
1	6	42	6.27e-04	-2.64e-06	6.27e-04	-2.64e-06	
1	6	43	7.38e-04	3.87e-04	7.38e-04	3.87e-04	1.86e-06
1	6	44	6.59e-04	-1.60e-06	6.59e-04	-1.60e-06	
1	6	45	7.90e-04	6.35e-04	7.90e-04	6.35e-04	2.58e-06
1	6	46	8.16e-04	7.55e-04	8.16e-04	7.55e-04	1.16e-06
1	6	47	8.16e-04	7.55e-04	8.16e-04	7.55e-04	-1.16e-06
1	6	48	7.90e-04	6.35e-04	7.90e-04	6.35e-04	-2.58e-06
1	6	49	7.38e-04	3.87e-04	7.38e-04	3.87e-04	-1.86e-06
1	6	50	6.59e-04	-1.60e-06	6.59e-04	-1.60e-06	
1	6	51	7.50e-04	3.88e-04	7.50e-04	3.88e-04	
1	6	52	6.72e-04		6.72e-04		
1	6	53	8.01e-04	6.37e-04	8.01e-04	6.37e-04	
1	6	54	8.27e-04	7.59e-04	8.27e-04	7.59e-04	
1	6	55	8.27e-04	7.59e-04	8.27e-04	7.59e-04	
1	6	56	8.01e-04	6.37e-04	8.01e-04	6.37e-04	
1	6	57	7.50e-04	3.88e-04	7.50e-04	3.88e-04	
1	6	58	6.72e-04		6.72e-04		
1	6	59	7.53e-04	3.88e-04	7.53e-04	3.88e-04	
1	6	60	6.75e-04		6.75e-04		
1	6	61	8.04e-04	6.38e-04	8.04e-04	6.38e-04	
1	6	62	8.29e-04	7.60e-04	8.29e-04	7.60e-04	
1	6	63	8.29e-04	7.60e-04	8.29e-04	7.60e-04	
1	6	64	8.04e-04	6.38e-04	8.04e-04	6.38e-04	
1	6	65	7.53e-04	3.88e-04	7.53e-04	3.88e-04	
1	6	66	6.75e-04		6.75e-04		
1	6	67	7.50e-04	3.88e-04	7.50e-04	3.88e-04	
1	6	68	6.72e-04		6.72e-04		
1	6	69	8.01e-04	6.37e-04	8.01e-04	6.37e-04	
1	6	70	8.27e-04	7.59e-04	8.27e-04	7.59e-04	
1	6	71	8.27e-04	7.59e-04	8.27e-04	7.59e-04	
1	6	72	8.01e-04	6.37e-04	8.01e-04	6.37e-04	
1	6	73	7.50e-04	3.88e-04	7.50e-04	3.88e-04	
1	6	74	6.72e-04		6.72e-04		
1	6	75	7.38e-04	3.87e-04	7.38e-04	3.87e-04	-1.86e-06
1	6	76	6.59e-04	-1.60e-06	6.59e-04	-1.60e-06	
1	6	77	7.90e-04	6.35e-04	7.90e-04	6.35e-04	-2.58e-06
1	6	78	8.16e-04	7.55e-04	8.16e-04	7.55e-04	-1.16e-06
1	6	79	8.16e-04	7.55e-04	8.16e-04	7.55e-04	1.16e-06
1	6	80	7.90e-04	6.35e-04	7.90e-04	6.35e-04	2.58e-06
1	6	81	7.38e-04	3.87e-04	7.38e-04	3.87e-04	1.86e-06
1	6	82	6.59e-04	-1.60e-06	6.59e-04	-1.60e-06	

1	6	83	7.06e-04	3.84e-04	7.06e-04	3.84e-04	-4.22e-06
1	6	84	6.27e-04	-2.64e-06	6.27e-04	-2.64e-06	
1	6	85	7.60e-04	6.27e-04	7.60e-04	6.28e-04	-5.56e-06
1	6	86	7.87e-04	7.45e-04	7.86e-04	7.45e-04	-2.42e-06
1	6	87	7.87e-04	7.45e-04	7.86e-04	7.45e-04	2.42e-06
1	6	88	7.60e-04	6.27e-04	7.60e-04	6.28e-04	5.56e-06
1	6	89	7.06e-04	3.84e-04	7.06e-04	3.84e-04	4.22e-06
1	6	90	6.27e-04	-2.64e-06	6.27e-04	-2.64e-06	
1	6	91	6.39e-04	3.77e-04	6.39e-04	3.77e-04	-9.34e-06
1	6	92	5.57e-04	-3.84e-06	5.57e-04	-3.84e-06	
1	6	93	6.96e-04	6.11e-04	6.94e-04	6.12e-04	-1.07e-05
1	6	94	7.28e-04	7.18e-04	7.22e-04	7.24e-04	-4.39e-06
1	6	95	7.28e-04	7.18e-04	7.22e-04	7.24e-04	4.39e-06
1	6	96	6.96e-04	6.11e-04	6.94e-04	6.12e-04	1.07e-05
1	6	97	6.39e-04	3.77e-04	6.39e-04	3.77e-04	9.34e-06
1	6	98	5.57e-04	-3.84e-06	5.57e-04	-3.84e-06	
1	6	99	5.17e-04	3.59e-04	5.15e-04	3.62e-04	-1.95e-05
1	6	100	4.31e-04	-5.11e-06	4.31e-04	-5.11e-06	-1.29e-06
1	6	101	5.94e-04	5.57e-04	5.71e-04	5.80e-04	-1.76e-05
1	6	102	6.87e-04	5.96e-04	5.96e-04	6.86e-04	-6.36e-06
1	6	103	6.87e-04	5.96e-04	5.96e-04	6.86e-04	6.36e-06
1	6	104	5.94e-04	5.57e-04	5.71e-04	5.80e-04	1.76e-05
1	6	105	5.17e-04	3.59e-04	5.15e-04	3.62e-04	1.95e-05
1	6	106	4.31e-04	-5.11e-06	4.31e-04	-5.11e-06	1.29e-06
1	6	107	3.63e-04	2.86e-04	3.22e-04	3.26e-04	-3.85e-05
1	6	108	2.15e-04	-1.41e-05	2.14e-04	-1.28e-05	-1.71e-05
1	6	109	5.24e-04	3.56e-04	3.58e-04	5.22e-04	-1.83e-05
1	6	110	6.26e-04	3.71e-04	3.71e-04	6.26e-04	-5.41e-06
1	6	111	6.26e-04	3.71e-04	3.71e-04	6.26e-04	5.41e-06
1	6	112	5.24e-04	3.56e-04	3.58e-04	5.22e-04	1.83e-05
1	6	113	3.63e-04	2.86e-04	3.22e-04	3.26e-04	3.85e-05
1	6	114	2.15e-04	-1.41e-05	2.14e-04	-1.28e-05	1.71e-05
1	6	115	2.18e-04	-1.47e-05	-1.35e-05	2.17e-04	-1.65e-05
1	6	116	4.37e-04	-7.75e-06	-7.75e-06	4.37e-04	
1	6	117	5.42e-04	-8.11e-06	-8.11e-06	5.42e-04	
1	6	118	5.42e-04	-8.11e-06	-8.11e-06	5.42e-04	
1	6	119	4.37e-04	-7.75e-06	-7.75e-06	4.37e-04	
1	6	120	2.18e-04	-1.47e-05	-1.35e-05	2.17e-04	1.65e-05

M_G

N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
0.0	0.0	0.0	0.0	0.0	1.20e-03	-2.12e-05	-1.95e-05	-1.85e-05	-6.54e-05
		0.0	0.0	0.0			1.20e-03	1.10e-03	6.54e-05

VERIFICHE ELEMENTI PARETE E/O GUSCIO IN C.A.

LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

Per le pareti in c.a., in ottemperanza al cap. 7 del DM 17-01-18, viene effettuata una doppia progettazione: sia come *Singolo Elemento* sia come *Parete Sismica* o *Parete Debolmente Armata*.

Per la progettazione come *Singolo Elemento* di ogni elemento vengono riportati il codice dello stato di verifica con le sigle **Ok e NV**, il rapporto x/d , la verifica per sollecitazioni ultime (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti), gli sforzi membranali e flessionali, il quantitativo di armatura nella direzione principale e secondaria sia inferiore che superiore e il quantitativo di armatura a taglio.

Per la progettazione come *Parete Sismica* o *Parete Debolmente Armata* vengono riportate invece le caratteristiche geometriche della parete e delle zone dissipative (quest'ultime solo nel caso di parete sismica), i coefficienti di verifica a compressione assiale, pressoflessione e sollecitazioni taglianti.

Inoltre vengono riportate per ogni quota significativa l'armatura principale e secondaria, l'armatura in zona confinata (solo per parete sismica) e non confinata, l'armatura concentrata all'estremità (per pareti debolmente armate), lo sforzo assiale aggiuntivo per q superiore a 2 e i valori di involuppo di taglio e momento. Per le pareti debolmente armate viene riportato anche lo stato di verifica relativo alla snellezza.

Le azioni derivate dall'analisi, in ogni combinazione di calcolo, sono elaborate come previsto al punto 7.4.4.5.1: traslazione del momento, incremento e variazione diagramma taglio, incremento e decremento sforzo assiale

La progettazione nel caso dei gusci viene effettuata una progettazione come *Singolo Elemento*, riportando in tabella il rapporto x/d , la verifica per sollecitazioni ultime, (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti) di ogni elemento.

Per ogni elemento, viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso. Le quantità di armature necessarie sono armature (disposte rispettivamente in direzione principale e secondaria, inferiore e superiore) distribuite nell'elemento ed espresse in centimetri quadri per sviluppo lineare pari ad un metro.

Nel caso dei gusci viene effettuata, inoltre, la verifica a punzonamento, riportando in tabella il codice dello stato di verifica, il coefficiente di verifica per piastre prive di armature a taglio lungo il perimetro resistente e lungo il perimetro del pilastro, coefficiente di incremento dovuto ai momenti flettenti, fattore di amplificazione per le fondazioni, il fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta, il quantitativo di armatura a punzonamento, il numero di serie di armature, il numero di braccia di armatura ed il riferimento alla combinazione più gravosa.

Simbologia adottata nelle tabelle di verifica

Per gli elementi con progettazione "*Singolo Elemento ...*" è presente una tabella con i simboli di seguito descritti:

Macro Guscio	Numero del macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
Macro Setto	Numero del macroelemento di tipo setto (elementi verticali contigui ed analoghi per proprietà)
Spessore	Spessore della parete
Id Materiale	Codice del materiale assegnato all'elemento
Id Criterio	Codice del criterio di progetto assegnato all'elemento
Progettazione	Sigla tipo di Elemento: - Singolo Elemento; - Singolo Elemento FONDAZIONE; - Singolo Elemento NON DISSIPATIVO

Per gli elementi con progettazione “*Parete Sismica o Parete Debolmente Armata*” è presente una tabella con i simboli di seguito descritti:

Parete	Numero della PARETE SISMICA
Parete PDA	Numero della PARETE DEBOLMENTE ARMATA
H totale	Altezza complessiva della parete
Spessore	Spessore della parete
H critica	Altezza come da punto 7.4.4.5.1 per traslazione momento (solo in Parete Sismica)
H critica V	Altezza della zona dissipativa (solo in Parete Sismica)
L totale	Larghezza di base della parete
L confinata	Lunghezza della zona dissipativa (solo in Parete Sismica)
Verif. N	Verifica di cui al punto 7.4.4.5.1 compressione semplice
Verif. N-M	Verifica di cui al punto 7.4.4.5.1 pressoflessione
Fattore V	Fattore di amplificazione del taglio di cui al punto 7.4.4.5.1
Diagramma V	Diagramma elaborato per effetto modi superiori come da fig. 7.4.4
Verif. V	Verifica di cui al punto 7.4.4.5.1 taglio (compressione cls, trazione acciaio, scorrimento in zona critica) (solo in Parete Sismica)
Verifica Snellezza	Verifica di cui al punto 7.4.4.5.1 limitazione compressione per prevenire l'instabilità (solo in Parete Debolmente Armata)
Prog. composta	Sigla per la progettazione composta

Per le verifiche degli elementi con progettazione “*Singolo Elemento ...*” e *Progettazione Composta* è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
x/d	rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
V N/M	Verifica delle sollecitazioni Normali (momento e sforzo normale)
Ver. rid	Rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd)
Af pr+	quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr-	quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec+	quantità di armatura richiesta in direzione secondaria relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	quantità di armatura richiesta in direzione secondaria relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Nz No Nzo	Sforzi membranali per pareti e/o setti verticali
Mz Mo Mzo	Sforzi flessionali per pareti e/o setti verticali
Nx Ny Nxy	Sforzi membranali per gusci orizzontali
Mx My Mxy	Sforzi flessionali per gusci orizzontali

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
Max tau	Tensione tangenziale Massima
Ver V pr	Verifica a taglio nella direzione principale lato calcestruzzo
Ver V sec	Verifica a taglio nella direzione secondaria lato calcestruzzo
Af V pr	Armatura nella direzione principale
V pr-	Verifica dell'armatura nella direzione principale
Af V sec	Armatura nella direzione secondaria
V sec-	Verifica dell'armatura nella direzione secondaria

Per le verifiche degli elementi con progettazione “*Parete Sismica o Parete Debolmente Armata*”, oltre alla tabella con le verifiche per gli elementi con progettazione “*Singolo Elemento ...*”, è presente una tabella con i simboli di seguito descritti:

Quota	Ascissa verticale di riferimento
Af conf.	Numero e diametro armatura presente in una zona confinata
Af std	Diametro e passo armatura in zona non confinata (doppia maglia)
Af estremi	Diametro dei ferri di estremità del pannello; se posto uguale 0, viene utilizzato il diametro standard
Af V (ori)	Diametro e passo armatura orizzontale (doppia maglia)
Ver. N	Rapporto tra azione di calcolo e resistenza a compressione (normalizzato a 1 in quanto da confrontare con 40% in CDB e 35 % in CDA)
Ver. N/M	Rapporto tra azione di calcolo e resistenza a pressoflessione
Ver. V acc(7)	Rapporto tra azione di calcolo e resistenza a taglio-trazione per alfaS minore di 2 secondo paragrafo 7.4.4.5.1
Ver. V cls	Rapporto tra azione di calcolo e resistenza a taglio-compressione
Ver. V acc	Rapporto tra azione di calcolo e resistenza a taglio-trazione
Ver. V scorr.	Rapporto tra azione di calcolo e resistenza a taglio scorrimento
N add	Sforzo assiale di cui al punto 7.4.4.5.1 da sommare e sottrarre nelle verifiche quando q supera 2
N invil M invil	Inviluppo del Momento e Sforzo Normale come al punto 7.4.4.5.1 (informativo) (solo in Parete Sismica)

Quota	Ascissa verticale di riferimento
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore
N v.Vacc, M v.Vacc, V v.Vacc,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. acc attinge il massimo valore
N v.Vscorr, M v.Vscorr, V v.Vscorr,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. scorr.e attinge il massimo valore
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore

Quota	Ascissa verticale di riferimento
CtgT Vcls	Valore di ctg(teta) adottato nella verifica V compressione cls
Vrsd Vcls	Valore della resistenza a taglio trazione (armatura di calcolo)
Vrcd Vcls	Valore della resistenza a taglio compressione
CtgT Vacc	Valore di ctg(teta) adottato nella verifica V trazione armatura
Vrsd Vacc	Valore della resistenza a taglio trazione (armatura presente)
Vrcd Vacc	Valore della resistenza a taglio compressione
Vdd	Valore del contributo alla resistenza allo scorrimento come da [7.4.20]
Vid	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]
A s.i.	Somma delle aree di armature
Incli.	Angolo di inclinazione delle armature
Dist.	Distanza alla base tra le armature inclinate

Quota	Ascissa verticale di riferimento
V[7.4.16]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.16)
N M V	Sollecitazioni di calcolo della condizione più gravosa
Alfas	Rapporto di Taglio
Vrd,c	Resistenza a taglio degli elementi non armati
VRd,s	Resistenza a taglio nei confronti dello scorrimento
V[7.4.17]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.17)
roH	Rapporto tra l'armatura orizzontale e l'area della sezione relativa di calcestruzzo
roV	Rapporto tra l'armatura verticale e l'area della sezione relativa di calcestruzzo
roN	Sforzo normale adimensionalizzato $N_{ed}/(b_w f_{yd})$

Per la verifica a **Punzonamento** è presente una tabella con i simboli di seguito descritti:

Nodo	numero del nodo
Stato	codice di verifica dell'elemento ok o NV
V. 6.47	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro resistente U1
V. 6.53	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro del pilastro U0
Beta	Fattore di incremento dovuto ai momenti flettenti
f. a fon	fattore di amplificazione per le fondazioni (solo per gusci di fondazione)
f. Uout	fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta
Aw tot	Quantitativo di armatura per la verifica di piastre munite di armatura (formula 6.52 dell'EC2)
Asw,min	Quantitativo minimo di armatura previsto dai dettagli costruttivi (formula 9.11 dell'EC2)
n. x serie	Numero di serie di armature
n.ser 0(R)	Numero di braccia delle armature in direzione 0 (o numero di braccia radiale)
n.ser 90	Numero di braccia delle armature in direzione 90 (solo se armatura cruciforme)
Rif. cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

PROGETTAZIONE DELLE FONDAZIONI

Il D.M.17/01/2018 - par: 7.2.5 prevede:

“Sia per CD“A” sia per CD“B” il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:

- quella derivante dall'analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;
- [...];
- quella trasferita dagli elementi soprastanti nell'ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD“A” e 1,10 in CD“B”;

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO_SAP mostra le sollecitazioni che derivano dall'analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

La progettazione degli elementi strutturali con proprietà fondazione è effettuata da PRO_SAP (per travi e platee) o da PRO_CAD Plinti (per plinti e pali di fondazione) incrementando le sollecitazioni delle combinazioni con sisma di un coefficiente pari 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

Per i bicchieri dei plinti di fondazione prefabbricati l'incremento delle sollecitazioni ha un fattore pari a 1.2 in CDB e 1.35 in CDA.

N.B.: nel caso di comportamento strutturale non dissipativo la progettazione viene effettuata senza nessun incremento.

Le verifiche geotecniche vengono effettuate dal modulo geotecnico incrementando automaticamente le sollecitazioni del fattore 1.1 in CDB e 1.3 in CDA per pali, plinti, travi e platee.

N.B.: nel caso di comportamento strutturale non dissipativo le verifiche geotecniche vengono effettuate senza nessun incremento.

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
1	40.00	1	2	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+Af	sec-Af	sec+	N x daN/cm	N y daN/cm	N xy daN/cm	M x daN	M y daN	M xy daN
1	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	7.37e-05	7.11e-05	6.54e-05
2	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	7.37e-05	7.11e-05	-6.54e-05
3	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	7.37e-05	7.11e-05	6.54e-05
4	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	7.37e-05	7.11e-05	-6.54e-05
5	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-3.33e-05	2.79e-04	7.74e-05
6	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	4.94e-04	4.99e-04	5.68e-05
7	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	2.75e-04	-3.16e-05	8.23e-05
8	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-1.09e-05	6.32e-04	-4.18e-05
9	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	5.19e-04	7.52e-04	3.07e-05
10	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-1.18e-05	7.83e-04	-4.42e-05
11	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	5.37e-04	9.03e-04	1.25e-05
12	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-1.18e-05	7.83e-04	4.42e-05
13	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	5.37e-04	9.03e-04	-1.25e-05
14	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-1.09e-05	6.32e-04	4.18e-05
15	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	5.19e-04	7.52e-04	-3.07e-05
16	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-3.33e-05	2.79e-04	-7.74e-05
17	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	4.94e-04	4.99e-04	-5.68e-05
18	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	2.75e-04	-3.16e-05	-8.23e-05
19	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	7.41e-04	5.23e-04	3.17e-05
20	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	6.22e-04	-8.49e-06	-4.66e-05
21	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.26e-04	8.39e-04	3.11e-05
22	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.62e-04	9.90e-04	1.16e-05
23	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.62e-04	9.90e-04	-1.16e-05
24	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.26e-04	8.39e-04	-3.11e-05
25	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	7.41e-04	5.23e-04	-3.17e-05
26	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	6.22e-04	-8.49e-06	4.66e-05
27	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.20e-04	5.45e-04	1.80e-05
28	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.03e-04	-7.14e-06	-5.20e-05
29	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.00e-03	8.84e-04	1.78e-05
30	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.04e-03	1.05e-03	6.25e-06
31	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.04e-03	1.05e-03	-6.25e-06
32	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.00e-03	8.84e-04	-1.78e-05
33	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.20e-04	5.45e-04	-1.80e-05
34	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.03e-04	-7.14e-06	5.20e-05
35	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.02e-03	5.55e-04	1.17e-05
36	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.03e-04	-5.11e-06	-5.42e-05
37	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.10e-03	9.07e-04	1.00e-05
38	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.14e-03	1.07e-03	3.84e-06
39	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.14e-03	1.07e-03	-3.84e-06
40	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.10e-03	9.07e-04	-1.00e-05
41	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.02e-03	5.55e-04	-1.17e-05
42	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.03e-04	-5.11e-06	5.42e-05
43	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.06e-03	5.59e-04	9.18e-06
44	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.50e-04	-3.21e-06	-5.54e-05
45	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.14e-03	9.16e-04	5.86e-06
46	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.18e-03	1.09e-03	1.52e-06
47	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.18e-03	1.09e-03	-1.52e-06
48	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.14e-03	9.16e-04	-5.86e-06
49	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.06e-03	5.59e-04	-9.18e-06
50	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.50e-04	-3.21e-06	5.54e-05
51	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.08e-03	5.60e-04	8.18e-06
52	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.70e-04	0.0	5.64e-05
53	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.16e-03	9.20e-04	3.82e-06
54	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.19e-03	1.09e-03	0.0
55	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.19e-03	1.09e-03	0.0
56	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.16e-03	9.20e-04	-3.82e-06
57	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.08e-03	5.60e-04	-8.18e-06
58	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.70e-04	0.0	-5.64e-05
59	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.09e-03	5.61e-04	-7.50e-06
60	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.74e-04	0.0	-5.65e-05
61	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.16e-03	9.21e-04	2.68e-06
62	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.20e-03	1.10e-03	0.0

63	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.20e-03	1.10e-03	0.0
64	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.16e-03	9.21e-04	-2.68e-06
65	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.09e-03	5.61e-04	-7.51e-06
66	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.74e-04	0.0	-5.65e-05
67	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.08e-03	5.60e-04	-8.18e-06
68	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.70e-04	0.0	-5.64e-05
69	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.16e-03	9.20e-04	-3.82e-06
70	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.19e-03	1.09e-03	0.0
71	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.19e-03	1.09e-03	0.0
72	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.16e-03	9.20e-04	3.82e-06
73	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.08e-03	5.60e-04	8.18e-06
74	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.70e-04	0.0	5.64e-05
75	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.06e-03	5.59e-04	-9.18e-06
76	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.50e-04	-3.21e-06	5.54e-05
77	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.14e-03	9.16e-04	-5.86e-06
78	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.18e-03	1.09e-03	-1.52e-06
79	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.18e-03	1.09e-03	1.52e-06
80	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.14e-03	9.16e-04	5.86e-06
81	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.06e-03	5.59e-04	9.18e-06
82	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.50e-04	-3.21e-06	-5.54e-05
83	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.02e-03	5.55e-04	-1.17e-05
84	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.03e-04	-5.11e-06	5.42e-05
85	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.10e-03	9.07e-04	-1.00e-05
86	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.14e-03	1.07e-03	-3.84e-06
87	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.14e-03	1.07e-03	3.84e-06
88	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.10e-03	9.07e-04	1.00e-05
89	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.02e-03	5.55e-04	1.17e-05
90	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.03e-04	-5.11e-06	-5.42e-05
91	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.20e-04	5.45e-04	-1.80e-05
92	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.03e-04	-7.14e-06	5.20e-05
93	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.00e-03	8.84e-04	-1.78e-05
94	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.04e-03	1.05e-03	-6.25e-06
95	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.04e-03	1.05e-03	6.25e-06
96	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	1.00e-03	8.84e-04	1.78e-05
97	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	9.20e-04	5.45e-04	1.80e-05
98	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.03e-04	-7.14e-06	-5.20e-05
99	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	7.41e-04	5.23e-04	-3.17e-05
100	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	6.22e-04	-8.49e-06	4.66e-05
101	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.26e-04	8.39e-04	-3.11e-05
102	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.62e-04	9.90e-04	-1.16e-05
103	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.62e-04	9.90e-04	1.16e-05
104	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	8.26e-04	8.39e-04	3.11e-05
105	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	7.41e-04	5.23e-04	3.17e-05
106	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	6.22e-04	-8.49e-06	-4.66e-05
107	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	4.94e-04	4.99e-04	-5.68e-05
108	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	2.75e-04	-3.16e-05	-8.23e-05
109	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	5.19e-04	7.52e-04	-3.07e-05
110	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	5.37e-04	9.03e-04	-1.25e-05
111	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	5.37e-04	9.03e-04	1.25e-05
112	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	5.19e-04	7.52e-04	3.07e-05
113	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	4.94e-04	4.99e-04	5.68e-05
114	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	2.75e-04	-3.16e-05	8.23e-05
115	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-3.33e-05	2.79e-04	-7.74e-05
116	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-1.09e-05	6.32e-04	4.18e-05
117	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-1.18e-05	7.83e-04	4.42e-05
118	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-1.18e-05	7.83e-04	-4.42e-05
119	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-1.09e-05	6.32e-04	-4.18e-05
120	ok	0.14	0.0	0.0	10.1	10.1	10.1	10.1	0.0	0.0	0.0	-3.33e-05	2.79e-04	7.74e-05

Nodo	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
	0.14	0.0	0.0	10.05	10.05	10.05	10.05	0.0	0.0	0.0	-3.33e-05	-3.16e-05	-8.23e-05
								0.0	0.0	0.0	1.20e-03	1.10e-03	8.23e-05

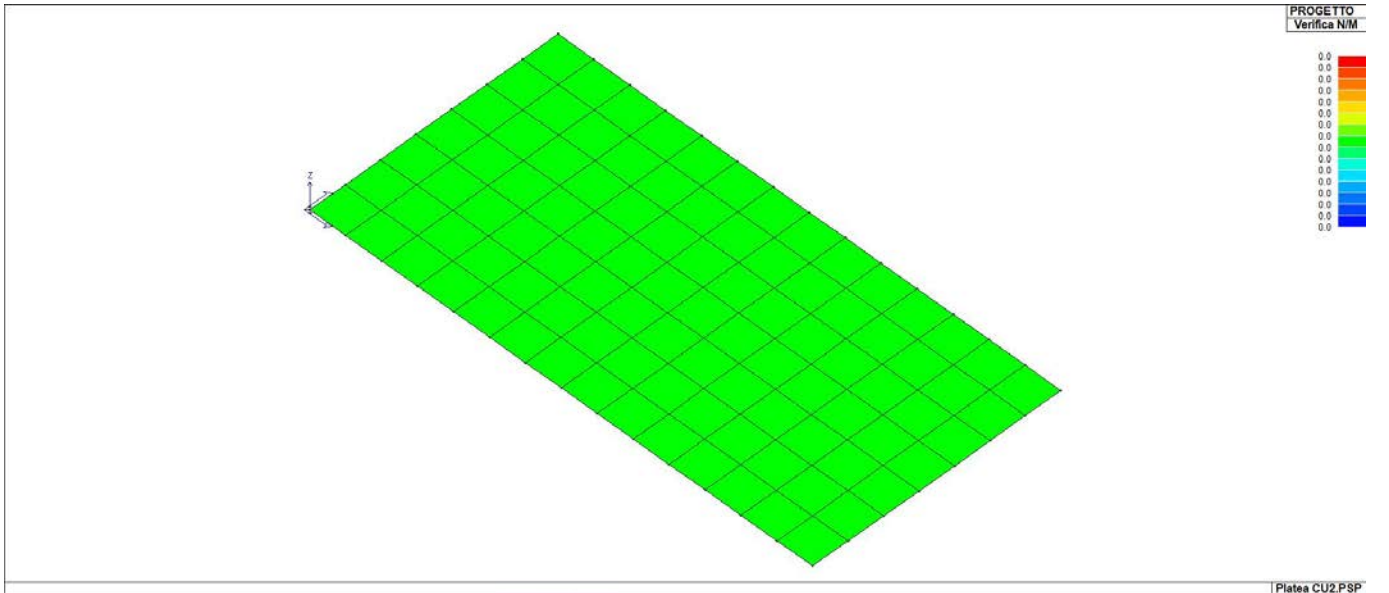
Nodo	Stato	Max tau daN/cm2	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr daN/cm	V sec daN/cm
1	ok	0.0						
2	ok	0.0						
3	ok	0.0						
4	ok	0.0						
5	ok	0.0						
6	ok	0.0						
7	ok	0.0						
8	ok	0.0						
9	ok	0.0						
10	ok	0.0						
11	ok	0.0						

12	ok	0.0
13	ok	0.0
14	ok	0.0
15	ok	0.0
16	ok	0.0
17	ok	0.0
18	ok	0.0
19	ok	0.0
20	ok	0.0
21	ok	0.0
22	ok	0.0
23	ok	0.0
24	ok	0.0
25	ok	0.0
26	ok	0.0
27	ok	0.0
28	ok	0.0
29	ok	0.0
30	ok	0.0
31	ok	0.0
32	ok	0.0
33	ok	0.0
34	ok	0.0
35	ok	0.0
36	ok	0.0
37	ok	0.0
38	ok	0.0
39	ok	0.0
40	ok	0.0
41	ok	0.0
42	ok	0.0
43	ok	0.0
44	ok	0.0
45	ok	0.0
46	ok	0.0
47	ok	0.0
48	ok	0.0
49	ok	0.0
50	ok	0.0
51	ok	0.0
52	ok	0.0
53	ok	0.0
54	ok	0.0
55	ok	0.0
56	ok	0.0
57	ok	0.0
58	ok	0.0
59	ok	0.0
60	ok	0.0
61	ok	0.0
62	ok	0.0
63	ok	0.0
64	ok	0.0
65	ok	0.0
66	ok	0.0
67	ok	0.0
68	ok	0.0
69	ok	0.0
70	ok	0.0
71	ok	0.0
72	ok	0.0
73	ok	0.0
74	ok	0.0
75	ok	0.0
76	ok	0.0
77	ok	0.0
78	ok	0.0
79	ok	0.0
80	ok	0.0
81	ok	0.0
82	ok	0.0
83	ok	0.0
84	ok	0.0
85	ok	0.0
86	ok	0.0
87	ok	0.0
88	ok	0.0

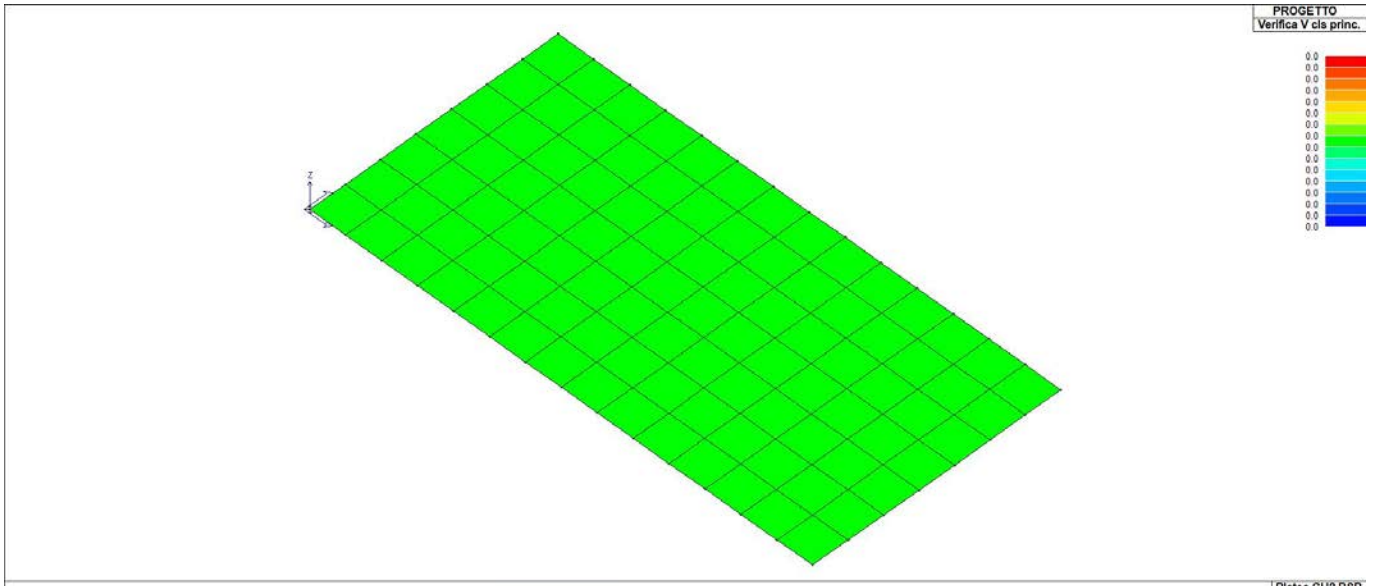
89	ok	0.0
90	ok	0.0
91	ok	0.0
92	ok	0.0
93	ok	0.0
94	ok	0.0
95	ok	0.0
96	ok	0.0
97	ok	0.0
98	ok	0.0
99	ok	0.0
100	ok	0.0
101	ok	0.0
102	ok	0.0
103	ok	0.0
104	ok	0.0
105	ok	0.0
106	ok	0.0
107	ok	0.0
108	ok	0.0
109	ok	0.0
110	ok	0.0
111	ok	0.0
112	ok	0.0
113	ok	0.0
114	ok	0.0
115	ok	0.0
116	ok	0.0
117	ok	0.0
118	ok	0.0
119	ok	0.0
120	ok	0.0

Nodo	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
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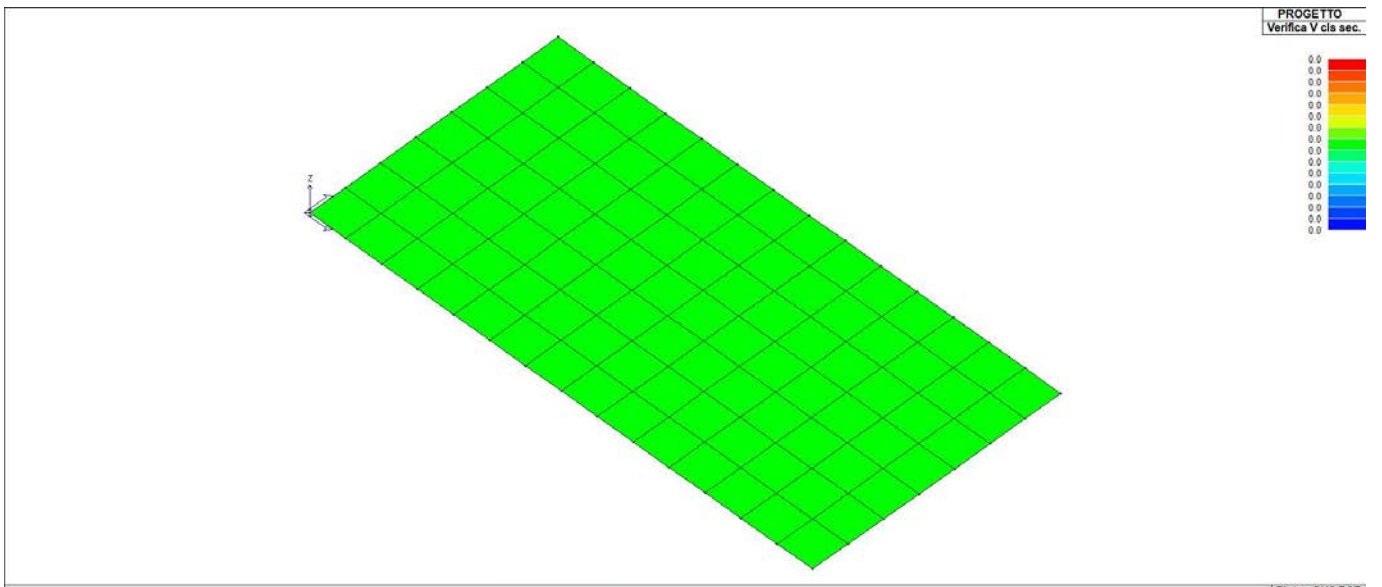
0.0



72_PRO_CA_D3_VER_NM



72_PRO_CA_D3_VER_VI



72_PRO_CA_D3_VER_VII

STATI LIMITE D' ESERCIZIO

LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

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

In particolare vengono riportati, in relazione al tipo di elemento strutturale, i risultati relativi alle tre categorie di combinazione considerate:

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare [normalizzato a 1]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare [normalizzato a 1]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti [normalizzato a 1]
wR	apertura caratteristica delle fessure in combinazioni rare [mm]
wF	apertura caratteristica delle fessure in combinazioni frequenti [mm]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti [mm]
dR	massima deformazione in combinazioni rare
dF	massima deformazione in combinazioni frequenti
dP	massima deformazione in combinazioni quasi permanenti

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

In relazione al tipo di elemento strutturale i valori sono selezionati nel modo seguente:

pilastri	rRfck	rRfyk	rPfck	per sezioni significative
travi	rRfck	rRfyk	rPfck	per sezioni significative
	wR	wF	wP	per sezioni significative
	dR	dF	dP	massimi in campata
	rRfck	rRfyk	rPfck	massimi nei nodi dell'elemento
setti e gusci	wR	wF	wP	massimi nei nodi dell'elemento

Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti flettenti 3-3).

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR mm	wF mm	wP mm	Rif. cmb
1	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
2	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
3	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
4	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
5	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
6	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
7	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
8	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
9	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
10	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
11	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
12	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
13	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
14	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
15	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
16	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
17	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
18	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
19	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
20	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
21	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
22	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
23	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0
24	0.0	0.0	0.0	4,4,6	0.0	0.0	0.0	0,0,0

