

COMUNE DI PETRIOLO

PROVINCIA DI MACERATA

VALUTAZIONE DELLA VULNERABILITA' SISMICA DELLA SCUOLA DELL'INFANZIA " PIETRO E MARIA SAVINI "

RELAZIONE TECNICA

SOGGETTI ATTUATORI

Committente:

Comune di Petriolo (MC)

Tecnico Incaricato:

Dott. Ing. Marco Mancini

Per Presa Visione



Data: Luglio 2019

ing. Marco Mancini

via Bartolo da Sassoferrato n°2 - 60035 - Jesi (AN)

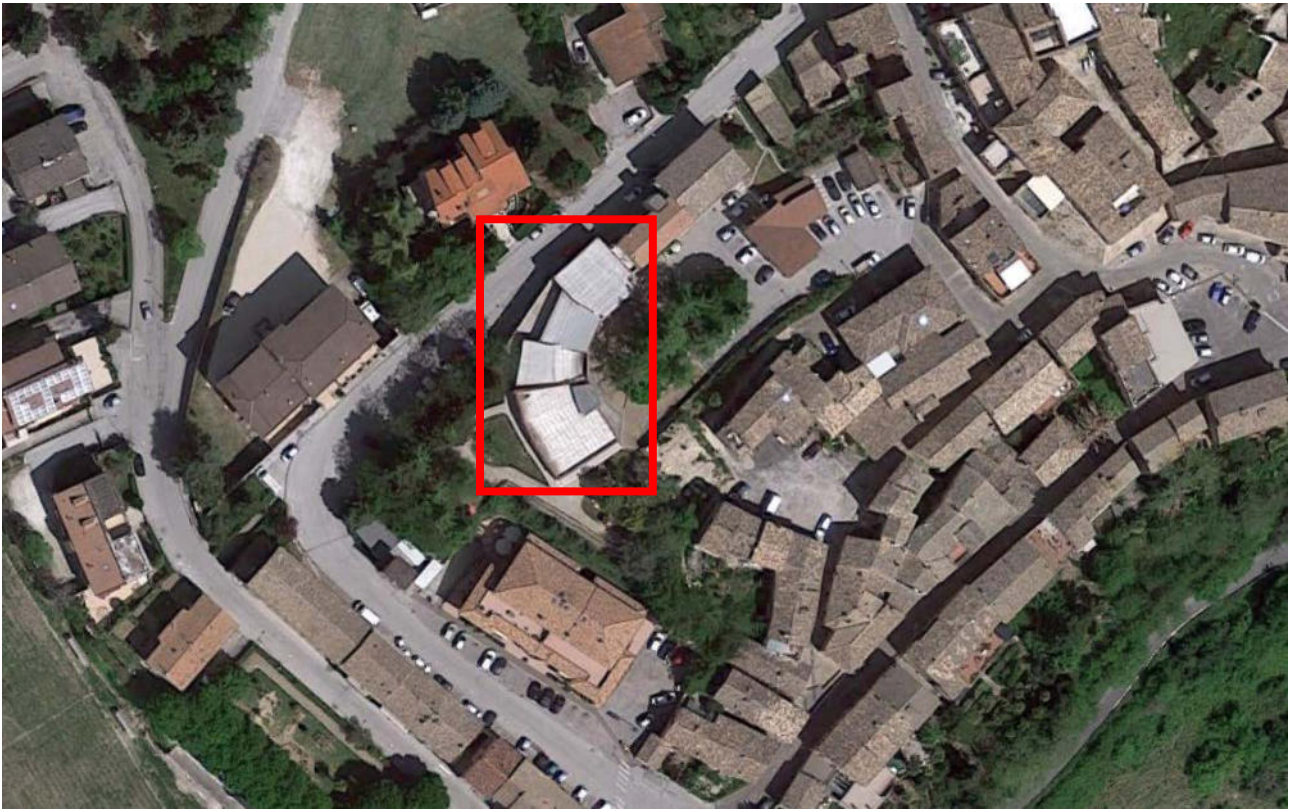
C.F. MNC MRC 72H26 A462B ♦ P.I. 02518370420

tel/fax 0731.59237 ♦ marmancini@libero.it

INTRODUZIONE

Oggetto

La presente relazione riguarda la vulnerabilità sismica della Scuola dell'infanzia "Pietro e Maria Savini" del comune di Petriolo (MC) , situata in via Del Pino n°20.





Vista aerea sull'edificio, foto del prospetto a monte, foto del prospetto su strada.

Descrizione della costruzione

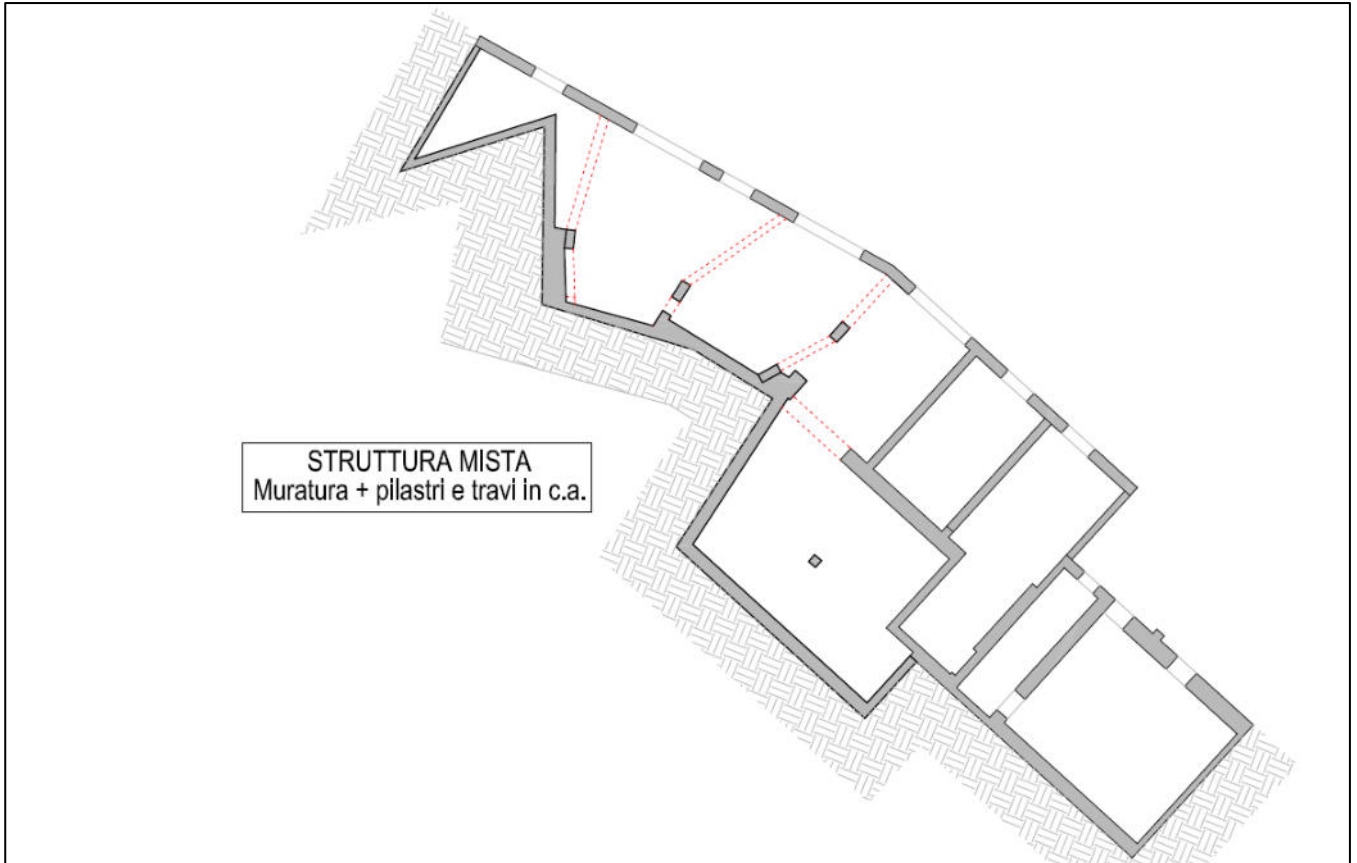
Il fabbricato si presenta planimetricamente di forma ad L data la composizione di più elementi strutturali più o meno connessi tra loro. Il lato fronte strada al piano superiore si sviluppa per una lunghezza totale di 63 ml circa, mentre la larghezza dei vari plessi varia da un massimo di 14 ml ad un minimo di 6,05ml.

La struttura portante del complesso scolastico è un insieme di tipologie strutturali diverse che si intersecano tra loro ai vari piani.

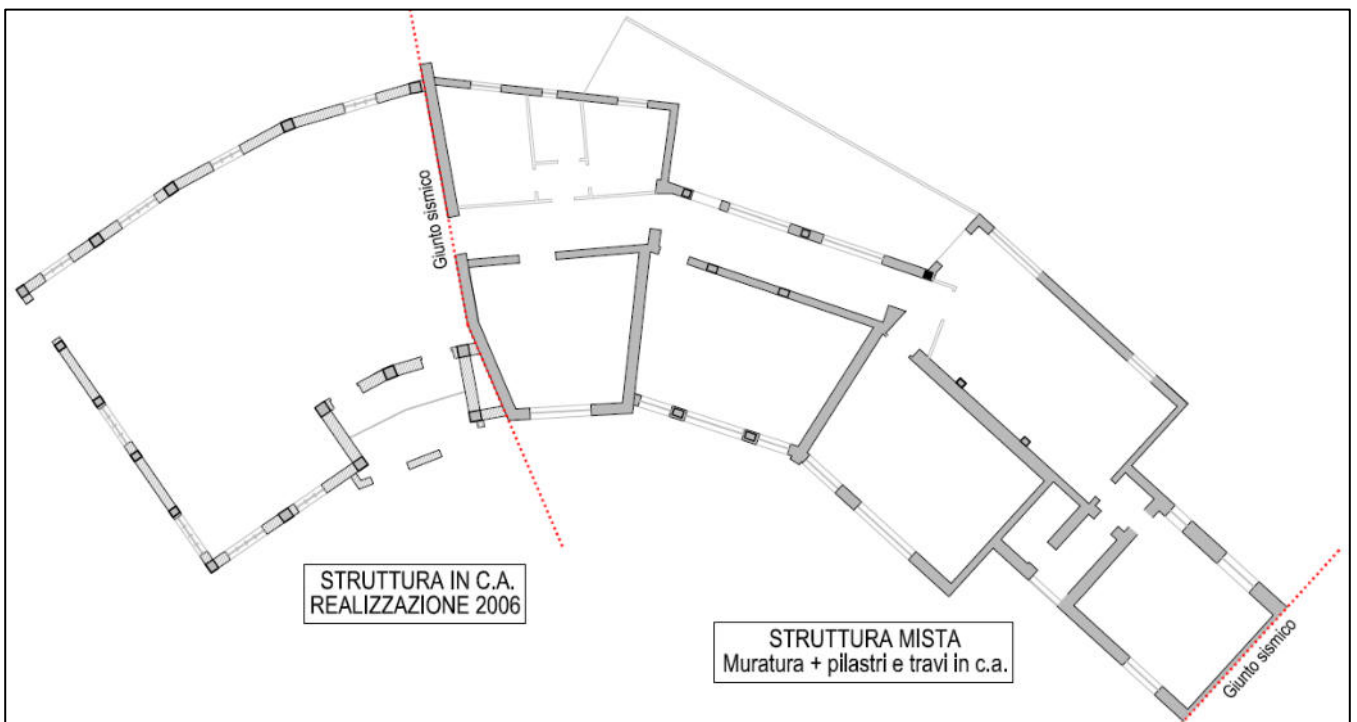
Al piano seminterrato si individuano murature esterne (lato strada) composte da blocchi in cemento portante con cordoli perimetrali sommitali, non continui, nei quali si intestano travi calate che vengono caricati dai solai interni della struttura. Sono evidenti anche dei muri contro terra in muratura portante e alcuni pilastri interni. Possiamo definire che al piano seminterrato si determina un struttura mista nel suo complesso, con grosse irregolarità in pianta.

Nel piano Primo si ritrova la stessa situazione, anche se in forma diversa, strutture miste ed irregolari in pianta. In questo livello sono identificabili due diversi blocchi strutturali, separati da un giunto tecnico. Tale conformazione è conseguente ad un intervento di adeguamento sismico avvenuto nel 2006 che ha portato alla demolizione e ricostruzione di una porzione della struttura esistente, porzione ricostruita in calcestruzzo armato con copertura in legno lamellare. In fase di progettazione si è optato alla separare della nuova costruzione in c.a. dal resto della struttura originale tramite giunto sismico.

Conseguentemente a questa condizione la vulnerabilità sismica del complesso edilizio si compone di due relazioni distinte; una vulnerabilità sismica della porzione risalente al 2006 in c.a. e di un'altra vulnerabilità sismica relativa alla restante struttura mista. Di seguito sono riportate due piante che definiscono in maniera più chiara le diverse tipologie strutturali.



Pianta Piano Terra (seminterrato lato strada)



Pianta Piano Primo

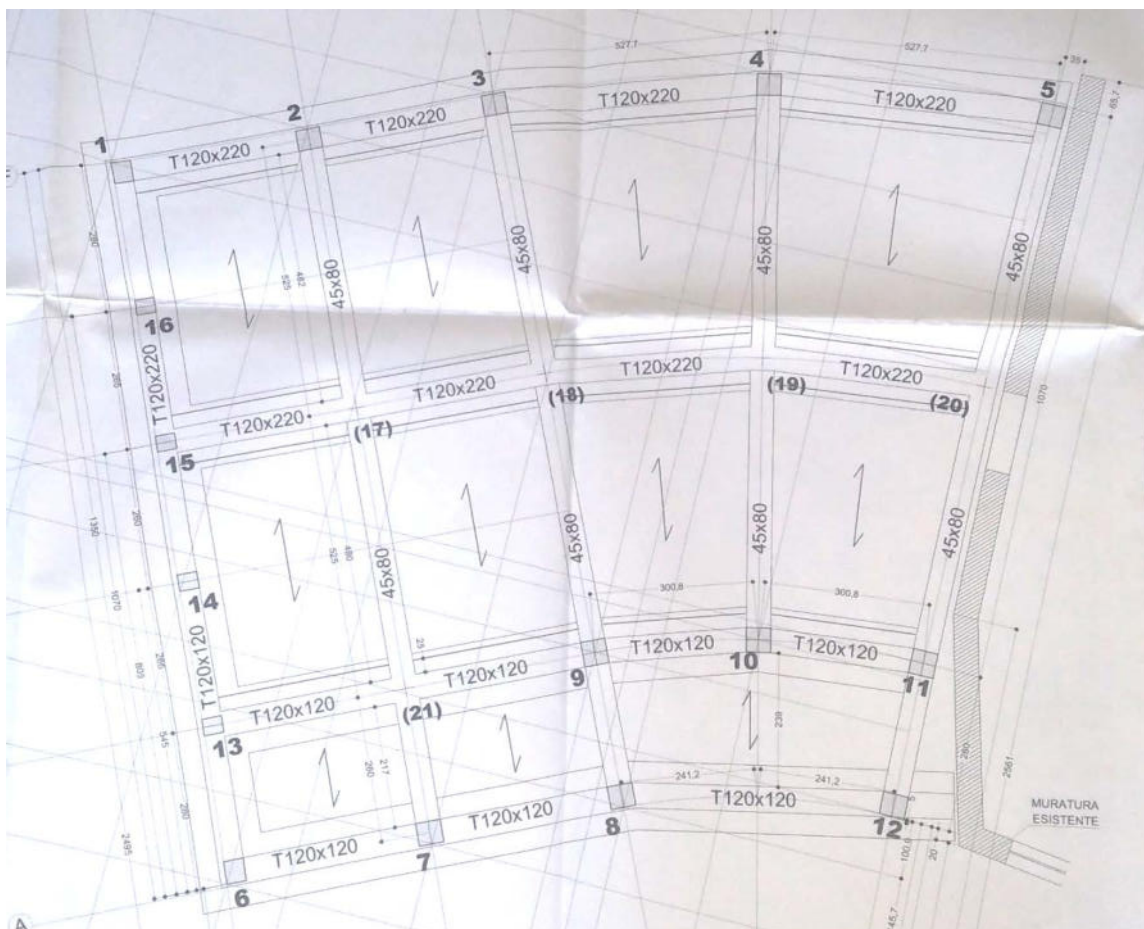
Per quanto riguarda le strutture orizzontali, tutti i solai, sia di piano che di copertura, risultano essere il latero cemento con spessori di 24+6 cm e 20+5 cm come pacchetto strutturale.

Solo la struttura di recente costruzione datata 2006 ha come solaio di copertura una struttura in legno lamellare, con travi accoppiate 18x70 cm, assito in tavolato di spessore 3,5 cm; all'estradosso sono presenti dei nastri in acciaio zincato che fungono da controvento di piano della struttura.

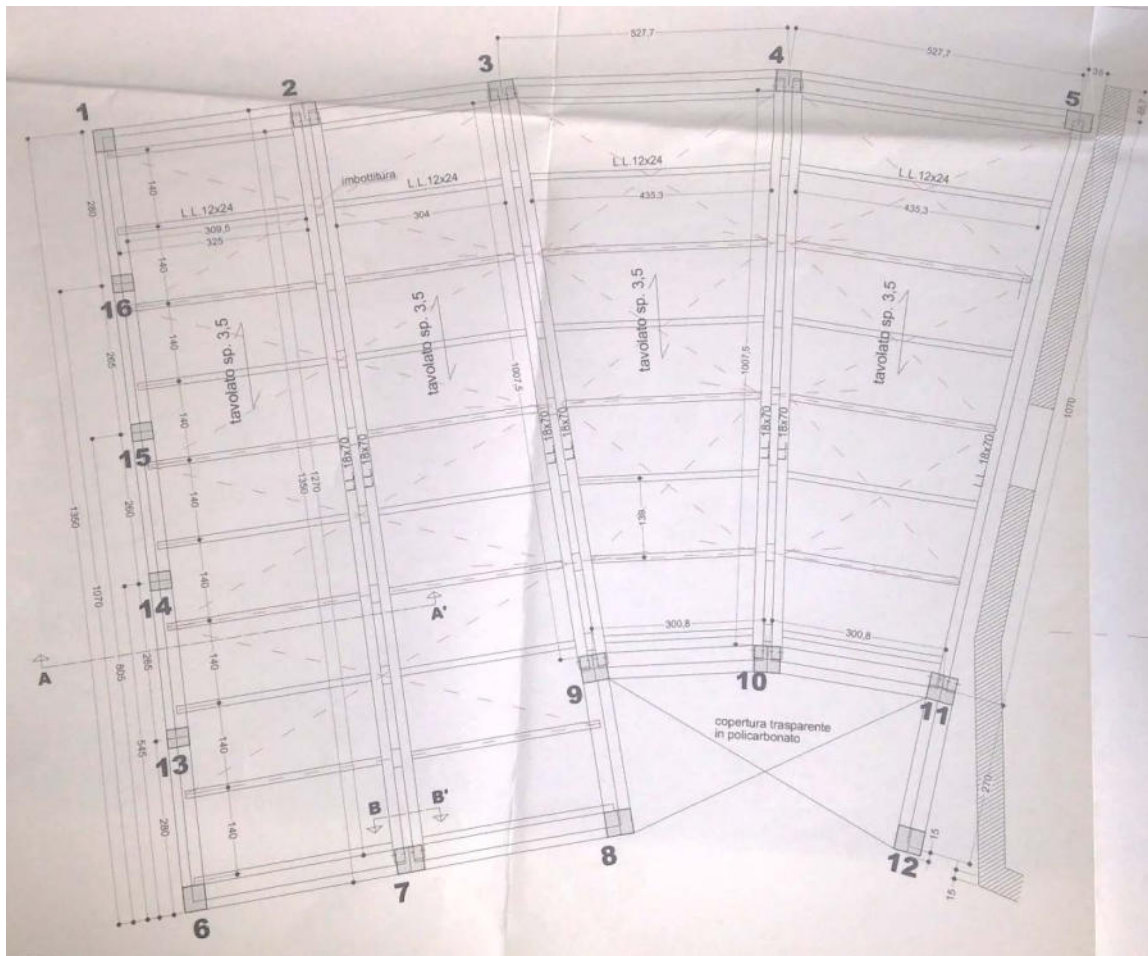
Le fondazioni sono di tipo superficiale, in particolare per quanto riguarda la struttura in calcestruzzo armato si identificano delle travi rovesce continue e dei cordoli di collegamento tra esse, mentre per la costruzione di tipo misto (muratura e c.a.) sono individuabili fondazioni superficiali ma di diversa forma e dimensione a seconda della zona della struttura che si esamina.

Analisi storico – critica

L'edificio oggetto di valutazione nell'anno 2006 ha subito importanti interventi dal punto di vista strutturale, grazie ad essi oggi sono presenti dei rilievi e degli elaborati grafici che ricostruiscono le ultime trasformazioni dell'edificio scolastico.



Carpenteria di fondazione edificio di nuova costruzione 2006.



Carpenteria solaio di copertura edificio di nuova costruzione 2006.

Interventi di rinforzo edificio originale con struttura portante mista, Piano primo.

Interventi di rinforzo edificio originale con struttura portante mista, Carpenteria di copertura.

Per quanto riguarda l'edificio in struttura mista "muratura + elementi in c.a." sempre nell'anno 2006 (contestualmente agli interventi sopra esposti) viene effettuata una vulnerabilità sismica; tale relazione di vulnerabilità attesta che la struttura risulta adeguata sismicamente nel rispetto delle seguenti normative:

SISMICA

- Ordinanza P.C.M. n. 3274 del 20.03.2003;
— Ordinanza P.C.M. n. 3316 del 02.10.2003 e ordinanza P.C.M. n. 3431 del
— 03.05.2005;
— D.P.C.M del 21.10.2003;
— Legge n.64 del 02.02.1974;
— Regione Autonoma Friuli Venezia Giulia – Legge Regionale n. 30 del
— 20.06.1977;
— Regione Umbria, Art. 38 L.R. 01.07.1981, n.34;
— D.M. 02.07.1981 ; Circolare Min. LL.PP. n.21745 del del 30.07.1981;
— D.M. 16.01.1996; Circolare Min. LL.PP. n.65 del 10.04.1997;
— Servizio Sismico Nazionale (S.S.N) – Associazione Nazionale Italia di
— Ingegneria Sismica. (A.N.I.D.I.S);
— D.G.R. Umbria n. 5180 del 14.09.1998 e D.G.R. Marche n. 2153 del
— 14.09.1998 in attuazione Legge 61/98.

MURATURE

D.M. 20.11.1987 , Circolare Min. LL.PP. n. 30787 del 04.01.1989;

CARICHI

D.M. 16.01.1996 “Norme tecniche relative ai criteri generali per la verifica di sicurezza delle costruzioni e dei sovraccarichi”;

La struttura in calcestruzzo armato e legno lamellare di nuova costruzione nell'anno 2006 è stata calcolata nel rispetto del DM 14/09/2005 e dell' OPCM 3274 e s.m.i. come riportato le immagini della relazione di calcolo riportate alle pagine seguenti.

COMUNE DI PETRIOLO Provincia di Macerata				
PIANO STRAORDINARIO PER LA MESSA IN SICUREZZA DI EDIFICI SCOLASTICI L. 289 DEL 21/12/2002 art. 60 comma 21 RISTRUTTURAZIONE SCUOLA MATERNA DI PETRIOLO				
PROGETTO ESECUTIVO				
COMMITTENTE :		AMMINISTRAZIONE COMUNALE		
TAVOLA:		PROGETTO STRUTTURALE ZONA DI NUOVA COSTRUZIONE relazione illustrativa, relazione sui materiali, relazione di calcolo e verifiche strutturali		5.0
 PROMAR engineering s.r.l. Società di Architettura ed Ingegneria Contrada Fiadra, 69/13 - 62020 Colmurano (MC) ITALIA Tel. 0733/506270 - Fax 0733/506912 - E-mail: promar@promarx191.it				
PROGETTISTA, D.L. E COORDINATORE SICUREZZA: ING. ENRICO MARIOTTI		 Collaboratori: Ing. Cristina Marziali Ing. Raffaele Pasquali Arch. Michele Romoli Ing. Gigliola Cinquantini		
N. rev.	Percorso	Verifica	Responsabile di verifica	Approvazioni enti
01	Prog.esec/Strutt/	27/03/2006	Ing. Enrico Mariotti	
02	Prog.esec/REV.02/Strutt/	04/04/2006	Ing. Enrico Mariotti	
Note e vidimazioni enti:				

1

2. RELAZIONE SUI MATERIALI

Per la realizzazione delle opere strutturali è previsto l'impiego dei seguenti materiali:

calcestruzzo (a prestazione garantita, UNI EN 206-1 – D.M. 14/09/2005):

classe di resistenza: C25/30 ($R_{ck} = 30\text{MPa}$)

classe di esposizione: XC2 fondazioni

XC4 + XF1 elevazione

classe di lavorabilità: S4

diametro max dell'aggregato: 40 mm fondazione

20 mm pilastri

12 mm solai

acciaio da armatura (D.M. 14/09/2005):

B450C

legno lamellare (D.M. 14/09/2005 – UNI EN 1194): (per travi ed arcarecci di copertura)

GL245h

legno massiccio (D.M. 14/09/2005 – UNI 11035): (per tavolato di copertura)

abete di provenienza italiana, A/N o A/C, categoria S2. Si considerano prudenzialmente le caratteristiche meccaniche peggiori, ovvero quelle dell'abete A/N.

acciaio da carpenteria (CNR 10011/97): (per elementi meccanici di collegamento)

Fe430

bulloni (D.M. 14/09/2005 – UNI EN ISO 4016 – UNI 5592 - UNI EN 898):

(per elementi meccanici di collegamento)

viti classe 5.6, zincati a caldo da abbinare a dadi classe 5 ed a rosette da legno, aventi

diametro esterno maggiore o uguale a 3 volte il diametro della vite.

Degrado, danneggiamento e vulnerabilità specifiche.

L'edificio in oggetto si compone di due strutture indipendenti con tipologia strutturale e forma totalmente differenti tra loro.

Queste caratteristiche impongono uno studio separato delle due strutture anche in relazione allo stato di degrado; al danneggiamento in essere ed alle vulnerabilità specifiche.

Edificio in calcestruzzo armato

L'edificio di recente costruzione si presenta con un degrado assente e con uno stato di danneggiamento dato da eventi sismici del 2016 praticamente nullo. La struttura presenta una forma non regolare in pianta, ad un unico livello con pilastri di passo abbastanza regolare lungo il perimetro esterno della struttura.

Il solaio di copertura in legno lamellare composto da travi accoppiate e da singolo tavolato. Nel suo complesso la suddetta porzione di edificio non presenta particolari vulnerabilità costruttive.

Edificio in muratura portante con telai interni in calcestruzzo armato

La struttura in esame è la porzione di edificio scolastico che si sviluppa su due livelli, uno dei quali seminterrato. Questo fabbricato è composto da murature portanti di varia tipologia e spessore, inoltre sono presenti alcuni telai in calcestruzzo armato, sia al piano terra che al piano primo.

Gli orizzontamenti sono totalmente in latero-cemento sia a livello di piano che al livello di copertura, quest'ultimo con un'unica pendenza.

Analizzando la tipologia strutturale e la conformazione della struttura sono evidenti numerose vulnerabilità intrinseche:

- Data la forma la struttura non può essere considerata regolare in pianta ed in altezza;
- Strutturalmente sono presenti elementi portanti (sulle quali insistono solai) sia al piano terra che al primo in muratura con elevata % di foratura, in alcune zone del piano primo sono presenti murature cosiddette “a cassetta”;
- Al piano seminterrato sul fronte strada l'edificio presenta delle aperture di grandi dimensioni che riducono sensibilmente la rigidezza dei pannelli murati sui quali insistono i solai di piano;
- Al piano terra ed al piano primo sono presenti dei telai in calcestruzzo armato composti da pilastri e travi calate che si intestano sulle murature portanti perimetrali;
- Dai rilievi effettuati, le strutture portanti nei due livelli, risultano in alcuni punti non cointeressate, ovvero le strutture del piano superiore non hanno una continuità totale al piano inferiore;

Lo stato di danneggiamento della porzione di edificio in oggetto non evidenzia lesioni di particolare importanza negli elementi portanti, ma si identificano solamente alcune lesioni negli elementi fragili e non strutturali.

Caratteristiche meccaniche dei materiali.

Si rimanda all'allegato “All_01_ Indagini e Prove Diagnostiche su alcuni Elementi Strutturali dell'Edificio”.

Livello di conoscenza del manufatto.

Sulla base delle analisi conoscitive effettuate sulle strutture in oggetto sono stati individuati dei livelli di conoscenza differenti per tipologia strutturale.

Gli aspetti che hanno definito i livelli di conoscenza sono: geometria della struttura, dettagli costruttivi, proprietà dei materiali, connessioni tra i diversi elementi e loro presumibili modalità di collasso.

Queste informazioni possono essere desunte grazie a sondaggi in loco, asportazione di campioni per prove in laboratorio e prove distruttive in loco.

Livello di conoscenza edificio in calcestruzzo armato

Come definito nel capitolo C8.5.4.2 della Circolare del 21/01/2019 i livelli di conoscenza per edifici con struttura in calcestruzzo armato sono definiti tramite un insieme di informazioni derivanti da sondaggi in loco, da

documentazione in possesso (elaborati grafici, relazioni tecniche e/o di calcolo) e proprietà meccaniche derivanti da prove in laboratorio.

Tabella C8.IV

Livello di conoscenza	Geometrie (carpenterie)	Dettagli strutturali	Proprietà dei materiali	Metodi di analisi	FC (*)
LC1	Da disegni di carpenteria originali con rilievo visivo a campione; in alternativa rilievo completo ex-novo	Progetto simulato in accordo alle norme dell'epoca e <i>indagini limitate</i> in situ	Valori usuali per la pratica costruttiva dell'epoca e <i>prove limitate</i> in situ	Analisi lineare statica o dinamica	1,35
LC2		Elaborati progettuali incompleti con <i>indagini limitate</i> in situ; in alternativa <i>indagini estese</i> in situ	Dalle specifiche originali di progetto o dai certificati di prova originali, con <i>prove limitate</i> in situ; in alternativa da <i>prove estese</i> in situ	Tutti	1,20
LC3		Elaborati progettuali completi con <i>indagini limitate</i> in situ; in alternativa <i>indagini esaustive</i> in situ	Dai certificati di prova originali o dalle specifiche originali di progetto, con <i>prove estese</i> in situ; in alternativa da <i>prove esaustive</i> in situ	Tutti	1,00

Nel caso in esame le informazioni in possesso sono:

- Disegni esecutivi del progetto di nuova costruzione, carpenterie di fondazione, carpenteria di copertura, particolari costruttivi;
- Relazione di calcolo geotecnico e delle fondazioni, relazione di calcolo strutturale;
- Risultati qualitativi e quantitativi derivanti da indagini e prove diagnostiche degli elementi strutturali;

Analizzata tutta la documentazione si può definire un livello di conoscenza per l'edificio in calcestruzzo armato pari ad LC3.

Livello di conoscenza edificio in muratura

Nel caso dell'edificio in muratura portante le informazioni raccolte sono in funzione della geometria del fabbricato, dei dettagli costruttivi in possesso e delle proprietà dei materiali derivanti da prove in situ.

Le prove e le indagini effettuate sulla costruzione si possono definire *indagini estese* in corrispondenza di dettagli costruttivi e strutturali, successivamente sono state effettuate *prove estese* per la determinazione delle caratteristiche meccaniche dei materiali utilizzati; inoltre di tale edificio sono presenti numerosi elaborati grafici con indicazione degli interventi effettuati sul fabbricato negli anni precedenti.

Le suddette informazioni determinano per l'edificio in muratura in oggetto un livello di conoscenza LC2.

In relazione alle indagini ed alle prove effettuate, per eventuali approfondimenti, su entrambe le strutture, si rimanda all'allegato "All_01_Indagini e Prove Diagnostiche su alcuni Elementi Strutturali dell'Edificio".

Azioni di progetto

Azioni permanenti

Peso proprio degli elementi strutturali principali (Gk1)

Il peso proprio è stato valutato assumendo un peso specifico per gli elementi in calcestruzzo armato

pari a 25 kN/mc, per gli elementi in muratura in mattoni pieni e malta di calce si è assunto il valore di 18 kN/mc, mentre per la muratura con percentuale di vuoti il peso specifico è pari a 15 kN/mc.

Solaio copertura in legno (edificio in calcestruzzo armato)

Permanente strutturale (travi in legno lamellare) $G_{k1} = 0.175 \text{ kN/mq}$

Totale permanente non strutturale $G_{k2} = 3.34 \text{ kN/m}^2$

- Tavolato
- Impermeabilizzazione
- Isolamento termico

Solaio di piano in calcestruzzo armato (26+6 cm)

Peso proprio pacchetto strutturale $G_{k1} = 3.30 \text{ kN/mq}$

Permanente non strutturale $G_{k2} = 3.00 \text{ kN/mq}$

- Massetto sabbia e cemento
- Pavimento
- Incidenza tramezzi (calcolata con l'effettivo sviluppo degli stessi)

Azioni variabili

Carico variabile solaio di piano

Categoria C1: "Aree con tavoli, quali scuole, caffè, ristoranti, sale per banchetti, lettura e ricevimento" (Tab. 3.1.II – NTC2018) $Q_{k1} = 3.00 \text{ kN/mq}$

Carichi variabili di origine ambientale agenti sulla copertura

Carico accidentale neve $Q_{k2} = 1.00 \text{ kN/mq}$

Carico accidentale VENTO

Trascurabile rispetto alle azioni orizzontali derivanti dalla azione sismica.

Azioni sismiche

Le azioni sismiche vengono valutate in accordo con quanto previsto al par. 3.2 delle NTC2018

considerando per la struttura in esame una vita nominale di:

$VN = 50$ anni

E considerando come coefficiente d'uso, vista la destinazione d'uso a luogo sicuro della protezione

civile:

- classe d'uso III: Costruzioni il cui uso preveda affollamenti significativi. Industrie con attività pericolose per l'ambiente. Reti viarie extraurbane non ricadenti in Classe d'uso IV. Ponti e reti ferroviarie la cui interruzione provochi situazioni di emergenza. Dighe rilevanti per le conseguenze di un loro eventuale collasso.

d'uso $CU=1.5$.

Di conseguenza il valore della vita utile di riferimento per la determinazione dell'azione sismica

($VR=VN \cdot CU$) risulta essere:

- $VR=75$ anni.

Il modello sismico dell'area oggetto di studio, ai fini della determinazione della categoria di

sottosuolo è stata affidata al Dott. Geol. Fabrizio Raffaeli in quale ha predisposto un' Analisi della Risposta Sismica Locale. Per analizzare ed approfondire tale relazione si rimanda all'allegato "All_02_RSL".

I risultati della suddetta analisi geologica hanno determinato un terreno di categoria A (Ammassi rocciosi affioranti o terreni molto rigidi....) ed un coefficiente topografico $T1$.

Gli spettri della risposta sismica locale sono stati utilizzati come input dell'azione sismica implementata nei modelli di calcolo delle due tipologie strutturali.

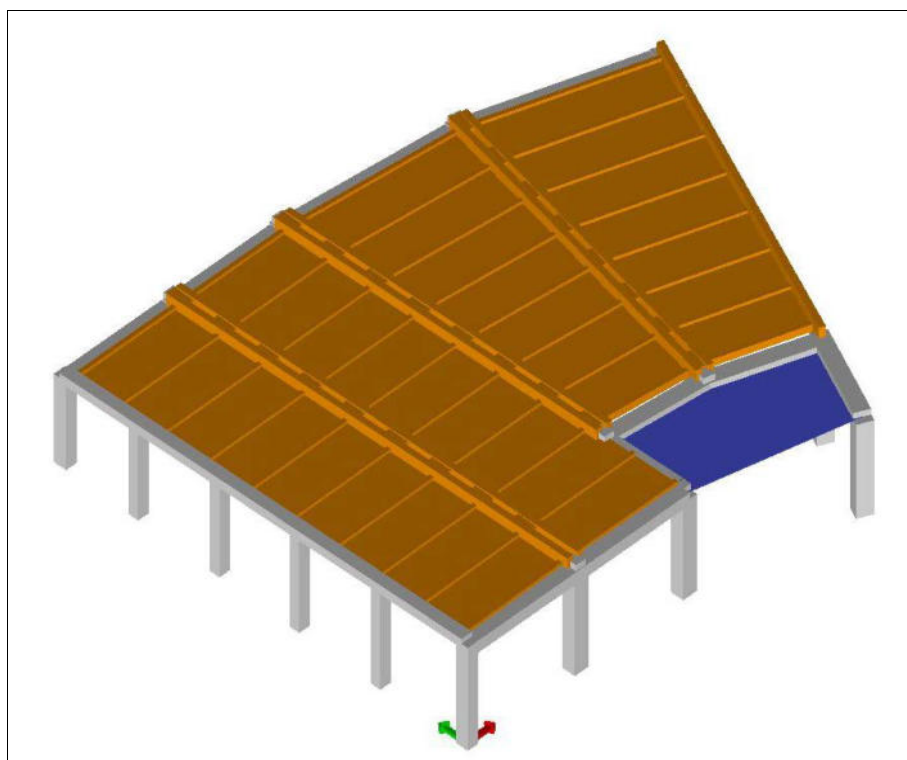
Modellazione strutturale

Per la valutazione della sicurezza nei confronti dell'azione sismica della Scuola dell'infanzia "Pietro e Maria Savini" del comune di Petriolo (MC) sono stati elaborati tre distinti modelli di calcolo globale, così da valutare mediante analisi statica non lineare (pushover) la risposta non lineare della struttura considerando diverse condizioni limite di modellazione del comportamento strutturale.

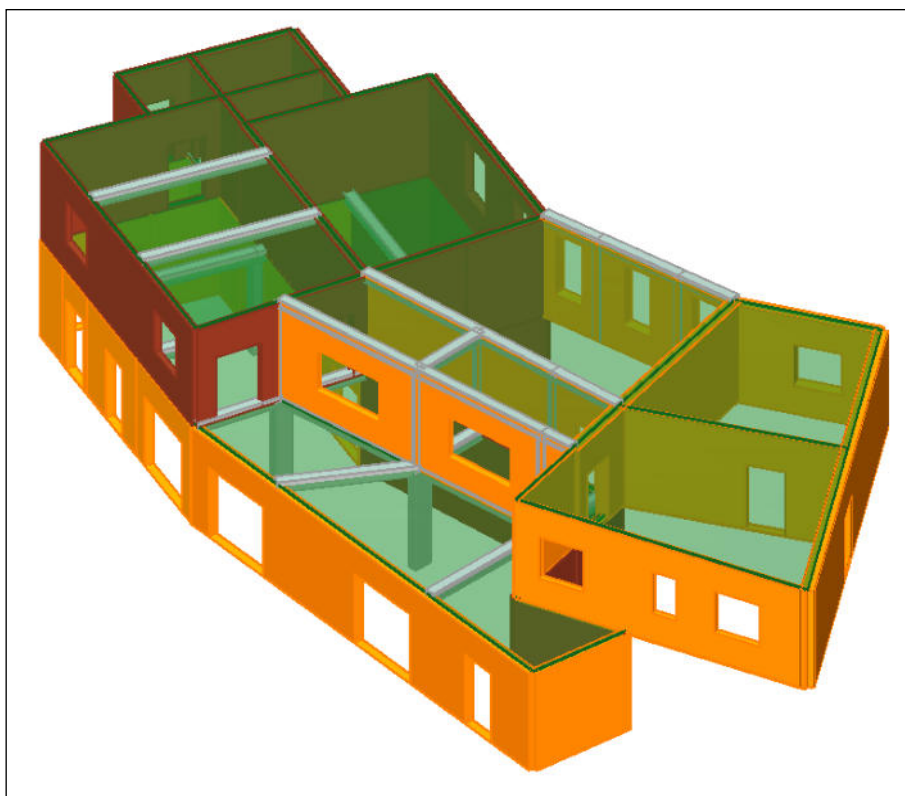
In particolare, vista la presenza dei giunti sismici, sono stati analizzati i due corpi di fabbrica in maniera separata effettuando un modello di calcolo per l'edificio in c.a. e due modelli di calcolo per l'edificio in muratura e telai in c.a.

L'edificio in muratura e telai in c.a. è stato modellato in prima battuta nella sua completezza, con il piano seminterrato e con l'incastro posto in corrispondenza delle fondazioni del piano interrato, in condizione a vantaggio di sicurezza. Successivamente è stato analizzato un secondo modello senza piano seminterrato, visto che l'analisi push over prevede la modellazione con incastro alla base posto in corrispondenza della linea del terreno e che consente di avere un risultato più vicino alla realtà in termini di deformazioni.

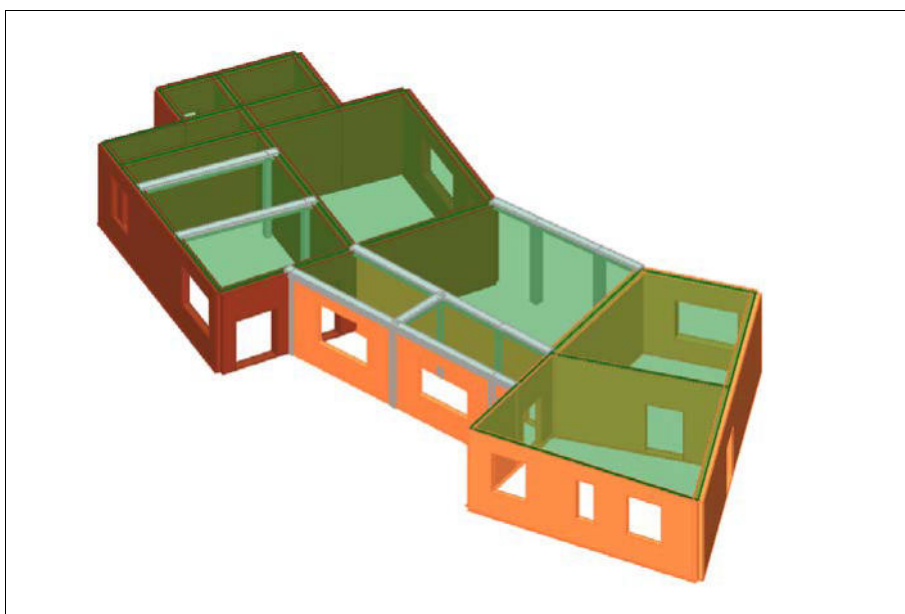
Queste due analisi strutturali e comportamentali dell'edificio in muratura sono volte alla valutazione del contributo negativo che il piano seminterrato offre all'intera struttura.



Modello di calcolo edificio in calcestruzzo armato



Modello di calcolo edificio in muratura e telai in c.a. (intero fabbricato)



Modello di calcolo edificio in muratura e telai in c.a. (solo piano terra)

VULNERABILITA' SISMICA - EDIFICIO IN CALCESTRUZZO ARMATO



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”.

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

info@2si.it

D.M. 17/01/18 cap. 10.2 Affidabilità dei codici utilizzati

<https://www.2si.it/it/prodotti/affidabilita/>

Contenuti della relazione:

RELAZIONE DI CALCOLO STRUTTURALE

- Origine e Caratteristiche dei Codici di Calcolo
- Affidabilità dei codici utilizzati
- Validazione dei codici
- Tipo di analisi svolta
- Modalità di presentazione dei risultati
- Informazioni generali sull'elaborazione
- Giudizio motivato di accettabilità dei risultati

STAMPA DEI DATI DI INGRESSO

- Normative prese a riferimento
- Criteri adottati per le misure di sicurezza
- Criteri seguiti nella schematizzazione della struttura, dei vincoli e delle sconnessioni
- Interazione tra terreno e struttura
- Legami costitutivi adottati per la modellazione dei materiali e dei terreni
- Schematizzazione delle azioni, condizioni e combinazioni di carico
- Metodologie numeriche utilizzate per l' analisi strutturale
- Metodologie numeriche utilizzate per la progettazione e la verifica degli elementi strutturali

STAMPA DEI RISULTATI

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.

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

Analisi storico-critica ed esito del rilievo geometrico-strutturale

Per edifici esistenti, in coerenza con il paragrafo 8.2 delle NTC-18, l'analisi storico-critica ed il rilievo geometrico-strutturale devono evidenziare i seguenti aspetti: (a) la costruzione riflette lo stato delle conoscenze al tempo della sua realizzazione; (b) possono essere insiti e non palesi difetti di impostazione e di realizzazione; (c) la costruzione può essere stata soggetta ad azioni, anche eccezionali, i cui effetti non siano completamente manifesti; (d) le strutture possono presentare degrado e/o modificazioni significative rispetto alla situazione originaria.

Analisi storico-critica

Per edifici esistenti, viene indicata la documentazione reperita e vengono esplicitate le informazioni desunte da ciascuno dei documenti esaminati per le finalità indicate al paragrafo 8.5.1 delle NTC-18.

Esito del rilievo geometrico-strutturale

Per edifici esistenti, vengono descritte le modalità con cui è stato effettuato il rilievo geometrico strutturale e gli esiti di quest'ultimo, anche con riferimenti espliciti e puntuali agli elaborati grafici che saranno riportati nella parte "4.1. Rilievo geometrico-strutturale". Il rilievo delle strutture deve essere eseguito e restituito secondo le modalità e con le finalità riportate nei paragrafi 8.5.2 e 8.7 delle NTC-18.

Descrizione generale dell'opera

Descrizione generale dell'opera	
Fabbricato ad uso	
Ubicazione	Comune di PETRIOLO (MC) (Regione MARCHE) Località PETRIOLO (MC) Longitudine 13.466, Latitudine 43.221
Numero di piani	Fuori terra Interrati le dimensioni dell'opera in pianta sono racchiuse in un rettangolo di
Numero vani scale	0
Numero vani ascensore	0
Tipo di fondazione	Superficiale

Parametri della struttura			
Classe d'uso	Vita Vn [anni]	Coeff. Uso	Periodo Vr [anni]
III	50.0	1.5	75.0

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

Livelli di conoscenza e fattori di confidenza

Il livello di conoscenza, per edifici esistenti è LC3
Pertanto il fattore di confidenza è 1.

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

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

Informazioni sul codice di calcolo

Titolo:	PRO SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2019-03-185a)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Dati utente finale:	ing. Marco Mancini
Codice Licenza:	Licenza dsi3847

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

Affidabilità dei codici utilizzati

2S.I. ha verificato l'affidabilità e la robustezza del codice di calcolo attraverso un numero significativo di casi prova in cui i risultati dell'analisi numerica sono stati confrontati con soluzioni teoriche. E' possibile reperire la documentazione contenente alcuni dei più significativi casi trattati al seguente link: <http://www.2si.it/Software/Affidabilità.htm>

Modellazione della geometria e proprietà meccaniche:

nodi	128
elementi D2 (per aste, travi, pilastri...)	216
elementi D3 (per pareti, platee, gusci...)	0
elementi solaio	36
elementi solidi	0

Dimensione del modello strutturale [cm]:

X min =	0.00
Xmax =	1723.41
Ymin =	-102.68
Ymax =	1310.00
Zmin =	0.00
Zmax =	340.05

Strutture verticali:

Elementi di tipo asta	NO
Pilastri	SI
Pareti	NO
Setti (a comportamento membranale)	NO

Strutture non verticali:

Elementi di tipo asta	SI
Travi	SI
Gusci	NO
Membrane	NO

Orizzontamenti:

Solai con la proprietà piano rigido	SI
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	SI
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.

2.8.1. Risultati dell'analisi modale

Viene riportato il tipo di analisi modale condotta, restituiti i risultati della stessa e valutate le informazioni desumibili in merito al comportamento della struttura.

2.8.2. Deformate e sollecitazioni per condizioni di carico

Vengono riportati i principali risultati atti a descrivere il comportamento della struttura, in termini di stati di sollecitazione e di deformazione generalizzata, distinti per condizione elementare di carico o per combinazioni omogenee delle stesse.

2.8.3. Involuppo delle sollecitazioni maggiormente significative. L'analisi e la restituzione degli involuppi (nelle combinazioni considerate agli SLU e agli SLE) delle caratteristiche di sollecitazione devono essere finalizzate alla valutazione dello stato di sollecitazione nei diversi elementi della struttura.

2.8.4. Reazioni vincolari

Vengono riportate le reazioni dei vincoli nelle singole condizioni di carico e/o nelle combinazioni considerate.

2.8.5. Altri risultati significativi

Nella presente parte vengono riportati tutti gli altri risultati che il progettista ritiene di interesse per la descrizione e la comprensione del/i modello/i e del comportamento della struttura.

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 SLU 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.

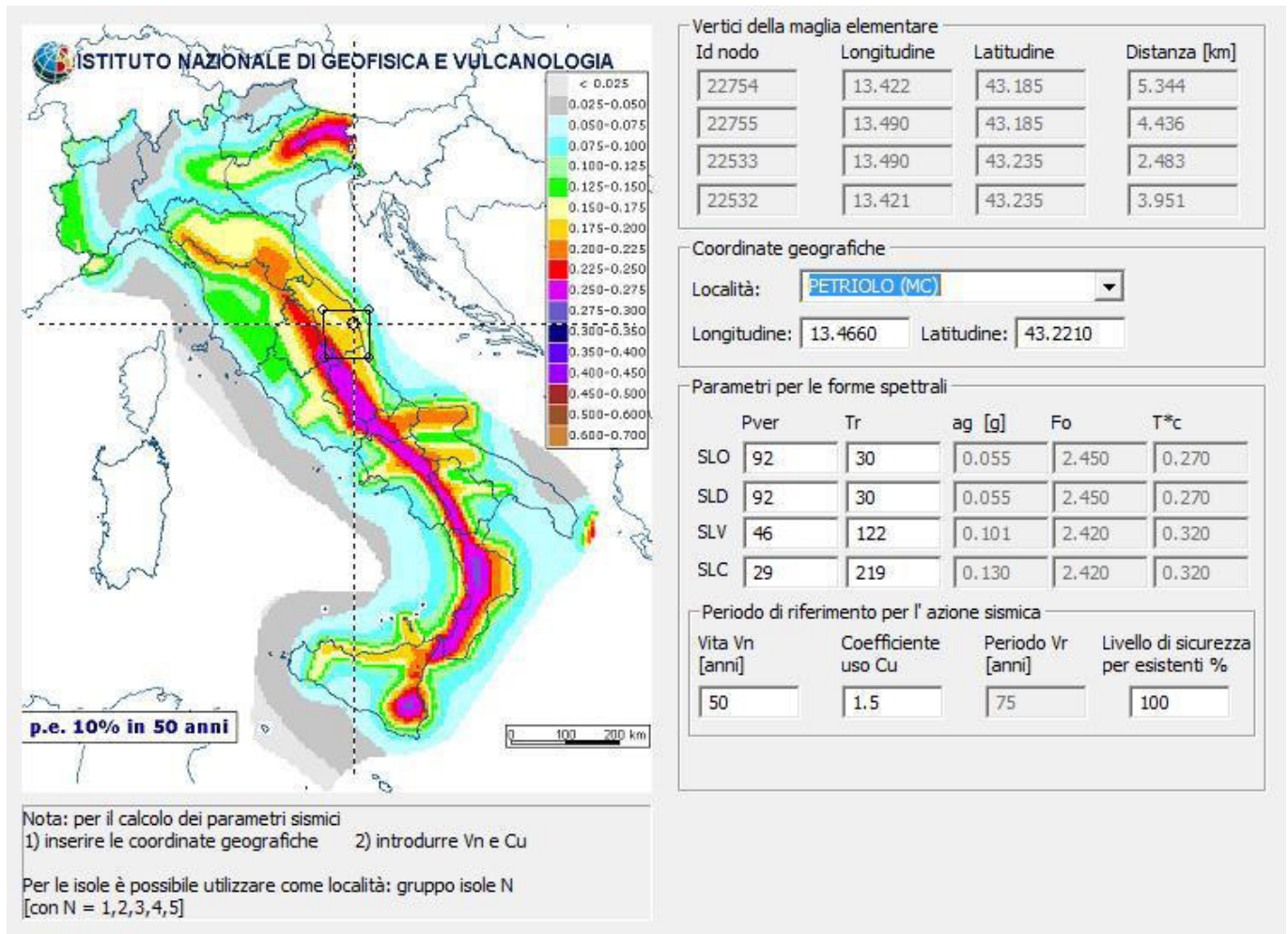
RELAZIONE SUI MATERIALI

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

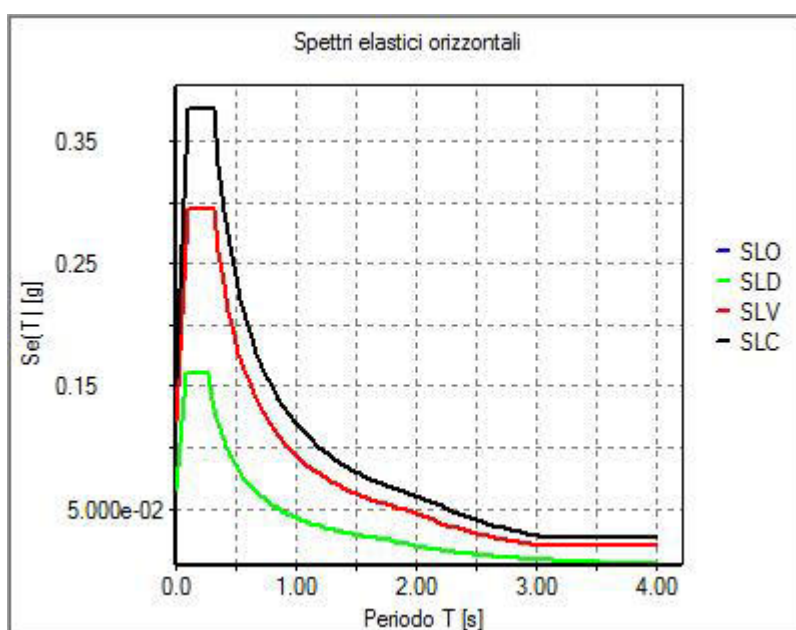
NORMATIVA DI RIFERIMENTO

1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. D.Min. Infrastrutture Min. Interni e Prot. Civile 14 Gennaio 2008 e allegate "Norme tecniche per le costruzioni".
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 sul 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 17.01.08 è dovuto o a progettazione simulata di edificio esistente.

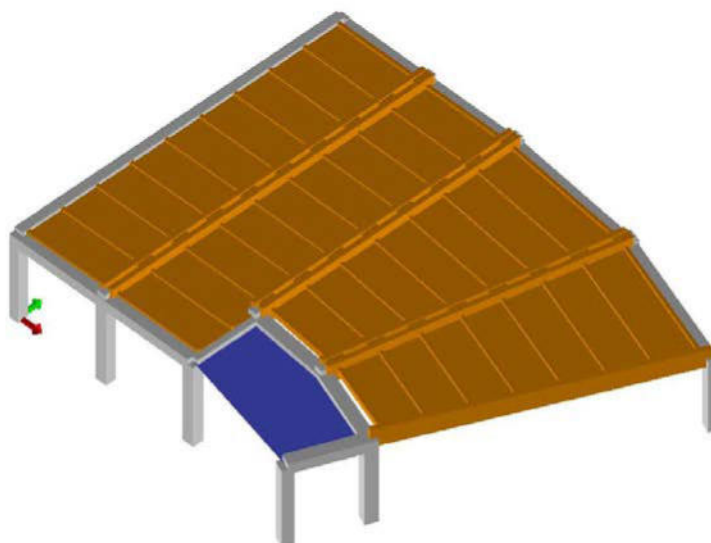


01_INT_PERICOLOSITA



01_INT_SPETTRI_ELASTICI_O

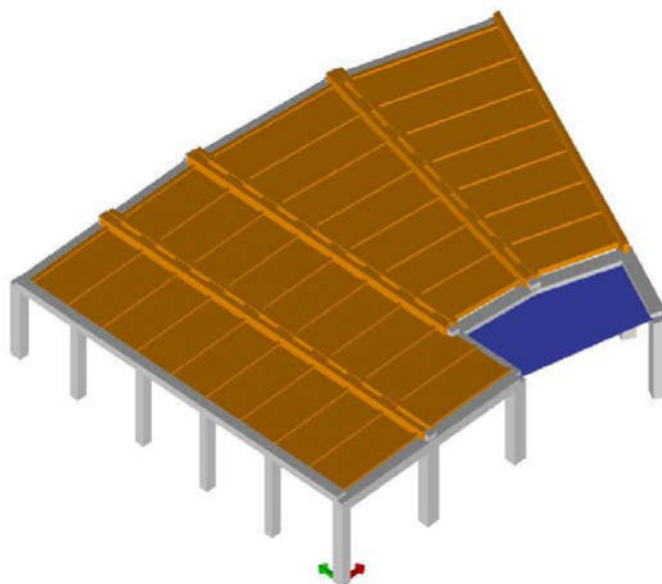
MODELLO



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

01_INT_VISTA_SOLIDA_001

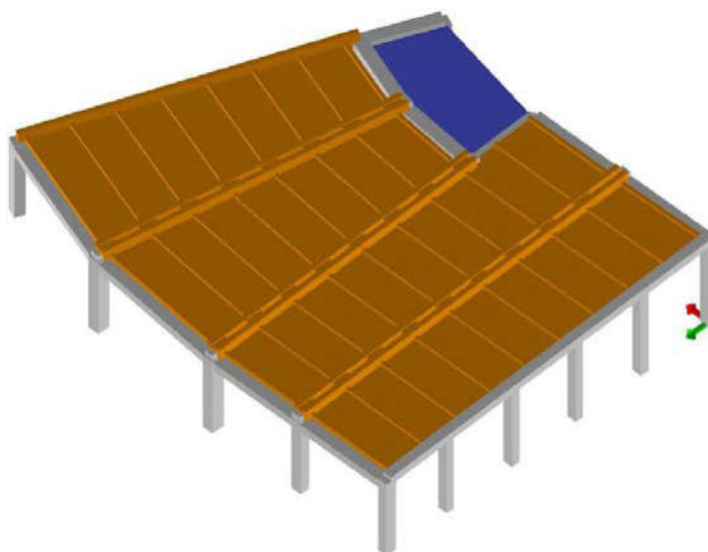
MODELLO



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

01_INT_VISTA_SOLIDA_002

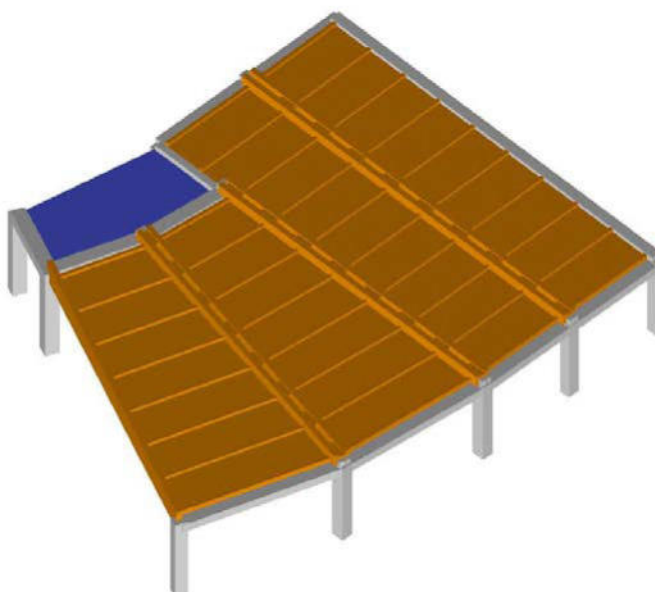
MODELLO



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

01_INT_VISTA_SOLIDA_003

MODELLO



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

01_INT_VISTA_SOLIDA_004

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	cemento armato	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	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

Resistenza fv0	Valore della resistenza a taglio in assenza di tensioni normali
Resistenza fh	Valore della resistenza a compressione orizzontale
Resistenza fb	Valore della resistenza a compressione dei blocchi
Resistenza fbh	Valore della resistenza a compressione dei blocchi in direzione orizzontale
Resistenza fv0h	Valore della resistenza a taglio in assenza di tensioni normali per le travi
Resistenza ft	Valore della resistenza a trazione per fessurazione diagonale
Resistenza fvlm	Valore della massima resistenza a taglio
Resistenza fbt	Valore della resistenza a trazione dei blocchi
Coefficiente mu	Coefficiente d'attrito utilizzato per la resistenza a taglio (tipicamente 0.4)
Coefficiente fi	Coefficiente d'ingranamento utilizzato per la resistenza a taglio
Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
4 legno	
E0,05	Modulo di elasticità corrispondente ad un frattile del 5%
Resistenza fc0	Valore della resistenza a compressione parallela
Resistenza ft0	Valore della resistenza a trazione parallela
Resistenza fm	Valore della resistenza a flessione
Resistenza fv	Valore della resistenza a taglio
Resist. ft0k	Resistenza caratteristica (tensione amm. per REGLES) per trazione
Resist. fmk	Resistenza caratteristica (tensione amm. per REGLES) per flessione
Resist. fvk	Resistenza caratteristica (tensione amm. per REGLES) per taglio
Modulo E0,05	Modulo elastico parallelo caratteristico
Lamellare	lamellare o massiccio

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

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

Modellazione di strutture in c.a.

Test N°	Titolo
41	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
42	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
43	VERIFICA ALLE TA DI STRUTTURE IN C.A.
44	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
45	VERIFICA A PUNZONAMENTO ALLO SLU DI PIASTRE IN C.A.
46	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
47	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96

48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
49	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
50	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
51	FATTORE DI STRUTTURA
52	SOVRARESISTENZE
53	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
54	PARETI IN C.A. SNELLE IN ZONA SISMICA
80	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
120	PROGETTO E VERIFICA DI TRAVI PREM

Modellazione di strutture in acciaio

Test N°	Titolo
55	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
56	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
57	LUCE LIBERA DI COLONNE IN ACCIAIO
58	SVERGOLAMENTO DI TRAVI IN ACCIAIO
59	FATTORE DI STRUTTURA
60	ACCIAIO D.M.2008
61	ACCIAIO EC3
62	GERARCHIA RESISTENZE STRUTTURE IN ACCIAIO
63	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA IRRIGIDIMENTI TRASVERSALI
74	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI UN PIATTO DI RINFORZO SALDATO ALL'ANIMA DELLA COLONNA
75	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO CON PRESENZA DI DUE PIATTI DI RINFORZO SALDATI ALL'ANIMA DELLA COLONNA
76	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A DUE VIE SU ALI COLONNA
77	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO A UNA VIA CON DUE COMBINAZIONI DI CARICO
78	COLLEGAMENTI IN ACCIAIO: NODO TRAVE COLONNA FLANGIATO SU ANIMA SENZA RINFORZI A QUATTRO FILE DI BULLONI DI CUI UNA SU PIASTRA INFERIORE E UNA SU PIASTRA SUPERIORE
79	VERIFICA DELLA PIASTRA NODO TRAVE COLONNA
85	TELAIO ACCIAIO: CONTROVENTI CONCENTRICI

Modellazione di strutture in muratura

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

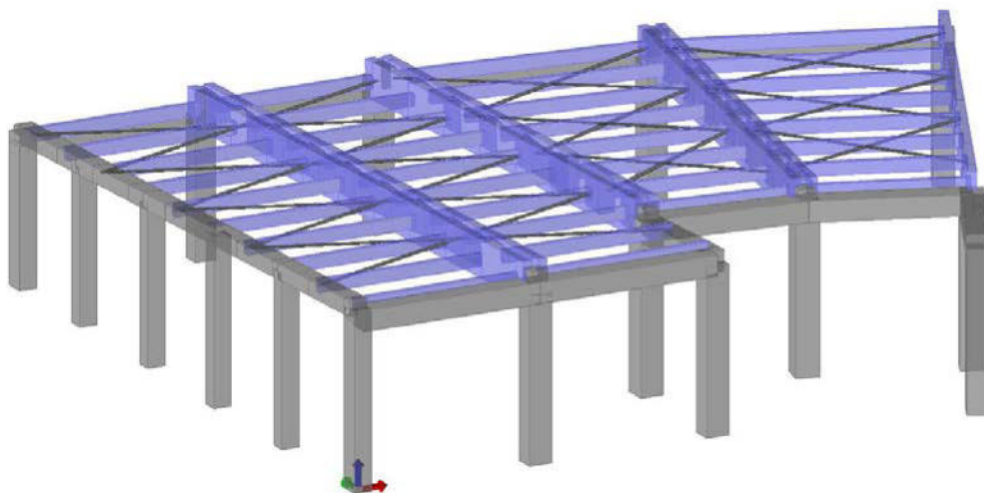
Modellazione di strutture in legno

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

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

Id	Tipo / Note	V. caratt.	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	396.4	300.0						
	Resistenza fctm		25.6						
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
11	Acciaio Fe430 - S275			2.100e+06	0.30	8.077e+05	7.80e-03	1.20e-05	
	Tensione ft	4526.3	4300.0						
	Tensione fy	2894.7	2750.0						
	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
48	Legno massiccio C24-legno E = 1.100e+05			1.100e+05	0.0	6900.0	3.50e-04	0.0	
	Modulo E0,05			7.400e+04					
	Lamellare : No								
	Resistenza fc0	300.0	210.0						
	Resistenza ft0	207.1	145.0						
	Resistenza fm	207.1	240.0						
	Resistenza fv	342.9	40.0						
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05
55	Legno lamellare omogeneo GL24h E = 1.150e+05			1.150e+05	0.0	6500.0	4.20e-04	0.0	
	Modulo E0,05			9.599e+04					
	Lamellare : Si								
	Resistenza fc0	342.9	240.0						
	Resistenza ft0	274.3	192.0						
	Resistenza fm	274.3	240.0						
	Resistenza fv	342.9	35.0						
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05

MODELLO



\$SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

11_MOD_MATERIALI_D2

Aste acc.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Beta assegnato	0.80	0.80	0.80	0.80	0.80	0.80
	0.80					
Verifica come controvento	No	No	No	No	No	No
	No					
Usa condizioni I e II	Si	Si	Si	Si	Si	Si
	Si					
Coefficiente gamma M0	1.05	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
	1.05					
Coefficiente gamma M2	1.25	1.25	1.25	1.25	1.25	1.25
	1.25					

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetta a filo	No	No	No	No	No	No
	No					
Af inf: da $q \cdot L \cdot L /$	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Armatura						
Minima tesa	0.31	0.31	0.31	0.33	0.15	0.15
	0.15					
Minima compressa	0.31	0.31	0.31	0.33	5.000e-02	5.000e-02
	5.000e-02					
Massima tesa	0.78	0.78	0.78	0.81	3.00	3.00
	3.00					
Da sezione	Si	Si	Si	No	Si	Si
	Si					
Usa armatura teorica	No	No	No	No	No	No
	No					
Stati limite ultimi						
Tensione f_y [daN/cm ²]	4370.00	4500.00	4370.00	4300.00	4300.00	4370.00
	4370.00					
Tensione f_y staffe [daN/cm ²]	4370.00	4500.00	4370.00	4300.00	4300.00	4370.00
	4370.00					
Tipo acciaio	tipo C	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
	1.15					
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.50	1.50

Travi c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
	1.50					
Verifiche con N costante	Si	Si	Si	Si	Si	Si
	Si					
Fattore di redistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander	Mander	Mander	Mander	Mander
	Mander					
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03
	5.000e-03					
Fattore lambda	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
epsilon max,s	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02
	4.000e-02					
epsilon cu2	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03
	4.500e-03					
epsilon c2	0.0	0.0	0.0	0.0	2.000e-03	2.000e-03
	2.000e-03					
epsilon cy	0.0	0.0	0.0	0.0	1.500e-03	1.500e-03
	1.500e-03					
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50	97.50	97.50	97.50	97.50
	97.50					
Tensione amm. acciaio [daN/cm2]	2600.00	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
	15.00					
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
Staffe						
Diametro staffe	0.0	0.0	0.0	0.0	8.00	8.00
	8.00					
Passo minimo [cm]	4.00	4.00	4.00	5.00	4.00	4.00
	4.00					
Passo massimo [cm]	30.00	30.00	30.00	30.00	20.00	20.00
	20.00					
Passo raffittito [cm]	15.00	15.00	15.00	15.00	15.00	15.00
	15.00					
Lunghezza zona raffittita [cm]	50.00	50.00	50.00	50.00	50.00	50.00
	50.00					
Ctg(Teta) Max	2.50	2.50	2.50	2.50	2.50	2.50
	2.50					
Percentuale sagomati	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00	265.00	265.00
	260.00					
Adotta scorrimento medio	No	No	No	Si	Si	Si
	Si					
Torsione non essenziale inclusa	Si	Si	Si	Si	Si	Si
	Si					

Pilastr c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
Progetto armatura	Privilegia lati	Privilegia lati	Privilegia lati	Disponi come da sezione	Disponi come da sezione	Disponi come da sezione
	Disponi come da sezione					
Progetta a filo	No	No	No	No	No	No
	No					
Effetti del 2 ordine	Si	Si	Si	No	No	No
	No					
Beta per 2-2	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
Beta per 3-3	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
Armatura						
Massima tesa	4.00	4.00	4.00	4.00	6.00	6.00
	6.00					
Minima tesa	1.00	1.00	1.00	1.00	0.30	0.30
	0.30					
Stati limite ultimi						

Pilastri c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Tensione fy [daN/cm ²]	4370.00	4500.00	4370.00	4370.00	4370.00	4370.00
	4370.00					
Tensione fy staffe [daN/cm ²]	4370.00	4500.00	4370.00	4370.00	4370.00	4370.00
	4370.00					
Tipo acciaio	tipo C	tipo C	tipo C	tipo C	tipo C	tipo C
	tipo C					
Coefficiente gamma s	1.15	1.15	1.15	1.00	1.15	1.15
	1.15					
Coefficiente gamma c	1.50	1.50	1.50	1.00	1.50	1.50
	1.50					
Verifiche con N costante	Si	Si	Si	Si	Si	Si
	Si					
Modello per il confinamento						
Relazione tensio-deformativa	Mander	Mander	Mander	Mander	Mander	Mander
	Mander					
Incrudimento acciaio	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03	5.000e-03
	5.000e-03					
Fattore lambda	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
epsilon max,s	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02	4.000e-02
	4.000e-02					
epsilon cu2	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03	4.500e-03
	4.500e-03					
epsilon c2	0.0	0.0	0.0	0.0	2.000e-03	2.000e-03
	2.000e-03					
epsilon cy	0.0	0.0	0.0	0.0	1.500e-03	1.500e-03
	1.500e-03					
Tensioni ammissibili						
Tensione amm. cls [daN/cm ²]	97.50	97.50	97.50	97.50	97.50	97.50
	97.50					
Tensione amm. acciaio [daN/cm ²]	2600.00	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
	15.00					
Staffe						
Diametro staffe	0.0	0.0	0.0	8.00	0.0	0.0
	0.0					
Passo minimo [cm]	5.00	5.00	5.00	5.00	5.00	5.00
	5.00					
Passo massimo [cm]	25.00	25.00	25.00	25.00	25.00	25.00
	25.00					
Passo raffittito [cm]	15.00	15.00	15.00	15.00	15.00	15.00
	15.00					
Lunghezza zona raffittita [cm]	45.00	45.00	45.00	45.00	45.00	45.00
	45.00					
Ctg(Teta) Max	2.50	2.50	2.50	2.50	2.50	2.50
	2.50					
Luce di taglio per GR [cm]	1.00	1.00	1.00	1.00	265.00	265.00
	260.00					
Massimizza gerarchia	Si	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
	No					
Af inf: da traliccio	Si	Si	Si	Si	Si	Si
	Si					
Consenti armatura a taglio	No	No	No	No	No	No
	No					
Incrementa armatura longitudinale per taglio	Si	Si	Si	Si	Si	Si
	Si					
Af inf: da $q \cdot L \cdot L /$	20.00	20.00	20.00	16.00	16.00	16.00
	16.00					
Incremento fascia piena [cm]	5.00	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
	0.15					
Massima tesa	3.00	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
	0.0					
Af/h [cm]	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02	7.000e-02
	7.000e-02					
Stati limite ultimi						
Tensione f_y [daN/cm ²]	4500.00	4500.00	4500.00	4300.00	4300.00	4300.00
	4300.00					
Tipo acciaio	tipo C	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
	1.15					
Coefficiente gamma c	1.50	1.50	1.50	1.50	1.60	1.60
	1.60					
Fattore di redistribuzione	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Tensioni ammissibili						
Tensione amm. cls [daN/cm ²]	85.00	85.00	85.00	97.50	97.50	97.50
	97.50					
Tensione amm. acciaio [daN/cm ²]	2600.00	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
	15.00					
Massimo rapporto area compressa/tesa	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
Verifica freccia						
Infinita	250.00	250.00	250.00	500.00	500.00	500.00
	500.00					
Istantanea	500.00	500.00	500.00	1000.00	1000.00	1000.00
	1000.00					
Fattore viscosità	3.00	3.00	3.00	3.00	3.00	3.00
	3.00					
Usa J non fessurato	No	No	No	No	No	No
	No					
Elementi non strutturali						
Tamponatura antiespulsione	No	No	No	No	No	No
	No					
Tamponatura con armatura	No	No	No	No	No	No
	No					
Fattore di struttura/comportamento	2.00	2.00	2.00	0.0	2.00	2.00
	2.00					
Coefficiente gamma m	0.0	0.0	0.0	0.0	2.00	2.00
	2.00					
Periodo T_a	0.0	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
	0.0					

Legno	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Lunghezze libere						
aste						
Beta assegnato	0.80	0.80	0.80	0.80	0.80	0.80
	0.80					
travi						
3-3 Beta * L automatico	Si	Si	Si	Si	Si	Si
	Si					
3-3 Beta assegnato	1.00	1.00	1.00	1.00	1.00	1.00
	1.00					
3-3 Beta * L assegnato [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
2-2 Beta * L automatico	Si	Si	Si	Si	Si	Si
	Si					
2-2 Beta assegnato	1.00	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
	0.0					
1-1 Beta * L automatico	Si	Si	Si	Si	Si	Si
	Si					
1-1 Beta assegnato	1.00	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
	0.0					
pilastr						
Metodo di calcolo 3-3	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato
	Assegnato					
3-3 Beta assegnato	2.00	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
	0.0					
Metodo di calcolo 2-2	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato	Assegnato
	Assegnato					
2-2 Beta assegnato	2.00	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
	0.0					
1-1 Beta assegnato	1.00	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
	0.0					
Generalità						
Gamma non sismico	1.50	1.50	1.50	1.30	1.30	1.30
	1.30					
Gamma sismico	1.50	1.50	1.50	1.00	1.00	1.00
	1.00					
Classificazione						
Classe di servizio	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)	1 (bassa umidità)
	1 (bassa umidità)					
Per classe di servizio 1						
Kmod permanente	0.60	0.60	0.60	0.60	0.60	0.60
	0.60					
Kmod lunga	0.70	0.70	0.70	0.70	0.70	0.70
	0.70					
Kmod media	0.80	0.80	0.80	0.80	0.80	0.80
	0.80					
Kmod breve	0.90	0.90	0.90	0.90	0.90	0.90
	0.90					
Kmod istantanea	1.00	1.00	1.00	1.10	1.10	1.10
	1.10					
Kdef	0.60	0.60	0.60	0.60	0.60	0.60
	0.60					
Per classe di servizio 2						
Kmod permanente	0.60	0.60	0.60	0.60	0.60	0.60
	0.60					
Kmod lunga	0.70	0.70	0.70	0.70	0.70	0.70
	0.70					
Kmod media	0.80	0.80	0.80	0.80	0.80	0.80
	0.80					
Kmod breve	0.90	0.90	0.90	0.90	0.90	0.90

Legno	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
	0.90					
Kmod istantanea	1.00	1.00	1.00	1.10	1.10	1.10
	1.10					
Kdef	0.80	0.80	0.80	0.80	0.80	0.80
	0.80					
Per classe di servizio 3						
Kmod permanente	0.50	0.50	0.50	0.50	0.50	0.50
	0.50					
Kmod lunga	0.55	0.55	0.55	0.55	0.55	0.55
	0.55					
Kmod media	0.65	0.65	0.65	0.65	0.65	0.65
	0.65					
Kmod breve	0.70	0.70	0.70	0.70	0.70	0.70
	0.70					
Kmod istantanea	0.90	0.90	0.90	0.90	0.90	0.90
	0.90					
Kdef	2.00	2.00	2.00	2.00	2.00	2.00
	2.00					

XLAM	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Generalità						
L direzione 1 [*] [cm]	1.00	1.00	1.00	0.0	1.00	1.00
	1.00					
L direzione 2 [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
Verifica V da D.38	No	No	No	No	Si	Si
	Si					
Verifica M da M.5-45	No	No	No	No	No	No
	No					
Media valori elementi	Si	Si	Si	No	No	No
	No					
Connessioni pareti						
rvpk [daN/cm]	50.00	50.00	50.00	50.00	50.00	50.00
	50.00					
rvtk [daN/cm]	50.00	50.00	50.00	50.00	50.00	50.00
	50.00					
rvlk [daN/cm]	50.00	50.00	50.00	50.00	50.00	50.00
	50.00					
RHk [daN]	5000.00	5000.00	5000.00	5000.00	5000.00	5000.00
	5000.00					
dH [cm]	25.00	25.00	25.00	25.00	25.00	25.00
	25.00					
fcH90k [daN/cm ²]	20.00	20.00	20.00	20.00	20.00	20.00
	20.00					
Pannelli solaio						
f ist<L/	500.00	500.00	500.00	500.00	500.00	500.00
	500.00					
f inf<L/	350.00	350.00	350.00	350.00	350.00	350.00
	350.00					
Verifica vibrazioni (EC5 7.3)	No	No	No	No	No	No
	No					
E massetto collaborante [daN/cm ²]	200000.00	200000.00	200000.00	200000.00	200000.00	200000.00
	200000.00					
t massetto collaborante [cm]	4.00	4.00	4.00	4.00	4.00	4.00
	4.00					
Smorzamento percentuale	0.0	0.0	0.0	0.0	1.00	1.00
	1.00					
Resistenza al fuoco						
Spessore carbonizzazione [cm]	0.0	0.0	0.0	0.0	0.0	0.0
	0.0					
3- intradosso	No	No	No	No	No	No
	No					
3+ estradosso	No	No	No	No	No	No
	No					

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

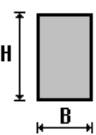
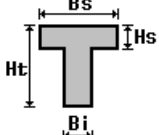
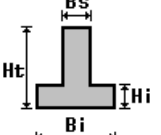
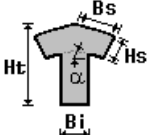
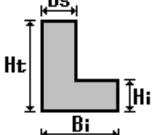
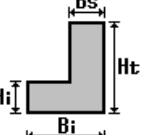
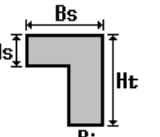
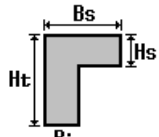
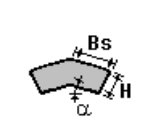
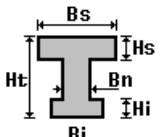
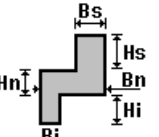
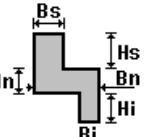
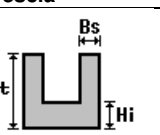
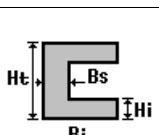
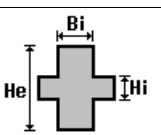
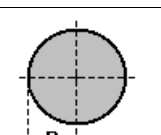
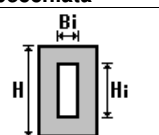
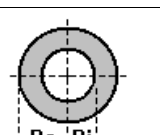
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

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

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

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3
1	PILASTRO 35X40- Rettangolare: b=35 h=40	1400.00	1166.67	1166.67	2.727e+05	1.429e+05	1.867e+05	8166.67	9333.33	1.225e+04	1.400e+04
2	PILASTRO 35X30- Rettangolare: b=35 h=30	1050.00	875.00	875.00	1.530e+05	1.072e+05	7.875e+04	6125.00	5250.00	9187.50	7875.00
3	PILASTRO 45X40- Rettangolare: b=45 h=40	1800.00	1500.00	1500.00	4.519e+05	3.038e+05	2.400e+05	1.350e+04	1.200e+04	2.025e+04	1.800e+04
4	PILASTRO 45X45- Rettangolare: b=45 h=45	2025.00	1687.50	1687.50	5.764e+05	3.417e+05	3.417e+05	1.519e+04	1.519e+04	2.278e+04	2.278e+04
5	TRAVE 35X30- Rettangolare: b=35 h=30	1050.00	875.00	875.00	1.530e+05	1.072e+05	7.875e+04	6125.00	5250.00	9187.50	7875.00
6	TRAVE 40X30- Rettangolare: b=40 h=30	1200.00	1000.00	1000.00	1.946e+05	1.600e+05	9.000e+04	8000.00	6000.00	1.200e+04	9000.00
7	TRAVE 40X40- Rettangolare: b=40 h=40	1600.00	1333.33	1333.33	3.599e+05	2.133e+05	2.133e+05	1.067e+04	1.067e+04	1.600e+04	1.600e+04
8	TRAVE 45X40- Rettangolare: b=45 h=40	1800.00	1500.00	1500.00	4.519e+05	3.038e+05	2.400e+05	1.350e+04	1.200e+04	2.025e+04	1.800e+04
12	trave secondaria LL12X24-Rettangolare: b=12 h=24	288.00	240.00	240.00	9469.44	3456.00	1.382e+04	576.00	1152.00	864.00	1728.00
13	trave secondaria LL18X70-Rettangolare: b=18 h=70	1260.00	1050.00	1050.00	1.140e+05	3.402e+04	5.145e+05	3780.00	1.470e+04	5670.00	2.205e+04
14	PILASTRO 35X40- Rettangolare: b=35 h=40	1400.00	1166.67	1166.67	2.727e+05	1.429e+05	1.867e+05	8166.67	9333.33	1.225e+04	1.400e+04
16	PILASTRO 45X45 p9- Rettangolare: b=45 h=45	2025.00	1687.50	1687.50	5.764e+05	3.417e+05	3.417e+05	1.519e+04	1.519e+04	2.278e+04	2.278e+04
17	Imbotte in legno 60x60- Rettangolare: b=60 h=60	3600.00	3000.00	3000.00	1.822e+06	1.080e+06	1.080e+06	3.600e+04	3.600e+04	5.400e+04	5.400e+04
18	Controvento acciaio - Rettangolare: b=10 h=0.6	6.00	5.00	5.00	0.69	50.00	0.18	10.00	0.60	15.00	0.90



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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:

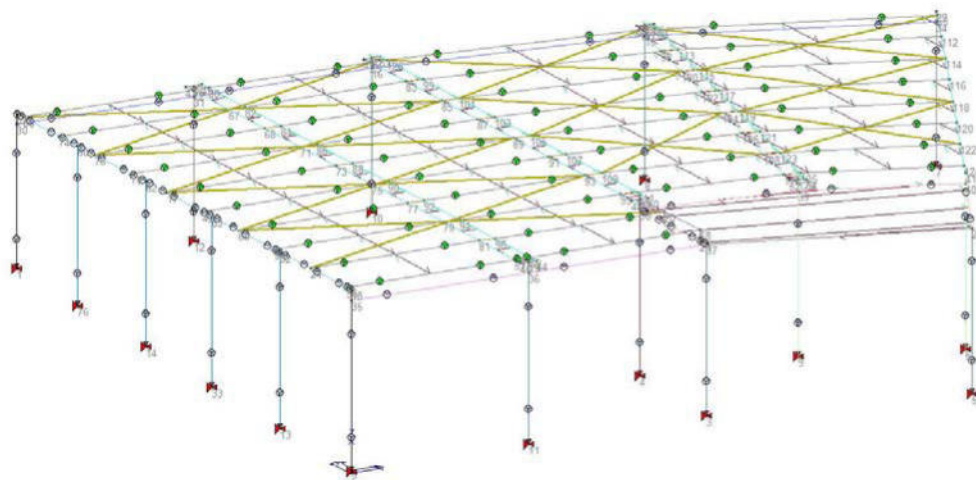
Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, 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
15	1225.6	1256.6	270.0	16	707.5	1310.0	270.0	17	2.40e-02	721.8	312.5
18	0.0	0.0	340.0	19	353.7	-5.64e-03	340.0	20	707.5	164.0	333.7
21	707.5	24.9	320.1	22	707.5	164.0	313.7	23	1185.7	-102.7	310.1
24	3.08e-02	159.9	333.9	25	691.5	1283.8	291.0	26	353.8	1310.0	290.0
27	707.5	1310.0	290.0	28	1225.6	1256.6	290.0	29	1723.4	1091.9	290.0
30	2.13e-02	1310.0	270.0	31	353.8	1310.0	270.0	32	4.54e-03	280.0	329.3
34	1723.4	1091.9	270.0	35	0.0	0.0	320.0	36	353.7	-5.64e-03	320.0
37	707.5	-1.13e-02	320.0	38	707.5	260.0	310.1	39	1007.9	230.7	310.1
40	1291.6	132.6	310.1	41	1291.6	132.6	330.1	42	2.57e-02	581.3	317.8
43	707.5	260.0	330.1	44	369.7	-5.90e-03	340.0	45	369.8	1310.0	290.0
46	337.7	-5.39e-03	340.0	47	337.8	1310.0	290.0	48	691.5	260.0	330.1
49	691.5	1310.0	290.0	50	723.4	258.4	330.1	51	723.5	1308.3	290.1
52	992.2	234.0	330.1	53	1209.6	1258.2	290.1	54	1023.5	227.4	330.1
55	1240.9	1251.5	290.1	56	3.25e-02	19.4	339.3	57	337.8	25.0	339.0
58	707.5	24.9	340.1	59	369.8	25.9	339.0	60	1.74e-02	1070.0	299.2
61	2.13e-02	1310.0	290.0	62	1.31e-02	805.0	309.3	63	8.85e-03	545.0	319.2
64	1236.6	1226.6	290.0	65	1713.1	1069.0	291.0	66	1.72e-02	1283.8	291.0
67	337.8	1143.3	296.4	68	337.8	1003.4	301.8	69	2.74e-02	440.9	323.2
70	2.23e-02	862.3	307.1	71	337.8	863.5	307.3	72	337.8	1283.8	291.0
73	337.8	723.6	312.7	74	1.89e-02	1143.3	296.4	75	337.8	583.7	318.1
77	337.8	443.8	323.6	78	2.06e-02	1002.8	301.7	79	337.8	303.9	329.0
80	369.8	1283.8	291.0	81	337.8	164.0	334.5	82	369.8	1143.3	296.4
83	691.5	1143.3	296.4	84	369.8	1003.4	301.7	85	691.5	1003.4	301.7
86	369.8	863.5	307.0	87	691.5	863.5	307.0	88	369.8	723.6	312.4
89	691.5	723.6	312.4	90	369.8	583.7	317.7	91	691.5	583.7	317.7
92	369.8	443.8	323.1	93	691.5	443.8	323.1	94	369.8	303.9	328.4
95	691.5	303.9	328.4	96	369.8	164.0	333.7	97	2.91e-02	300.4	328.5
98	1174.9	1094.7	296.5	99	723.5	1141.2	296.4	100	1145.8	957.8	301.8
101	723.5	1001.3	301.8	102	1116.8	820.8	307.2	103	723.5	861.4	307.1
104	1087.7	684.0	312.5	105	723.5	721.5	312.5	106	1058.7	547.1	317.8
107	723.5	581.6	317.8	108	1029.6	410.2	323.1	109	723.5	441.7	323.1
110	1000.5	273.2	328.5	111	723.5	301.8	328.5	112	1655.7	941.5	296.3
113	1206.4	1089.0	296.4	114	1598.7	813.8	301.0	115	1177.4	952.1	301.8
116	1541.2	686.3	306.4	117	1148.3	815.3	307.1	118	1483.8	558.7	311.8
119	1119.3	678.4	312.5	120	1426.3	431.2	317.2	121	1090.2	541.6	317.8
122	1368.8	303.7	322.6	123	1061.2	404.7	323.1	124	1311.4	176.2	328.0
125	1032.1	267.9	328.5	126	723.5	1282.1	291.1	127	1204.4	1233.6	291.0
128	1007.9	230.7	330.1								

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	2.09e-02	1310.0	0.0	v=111111						
2	0.0	0.0	0.0	v=111111						
3	707.5	-1.13e-02	0.0	v=111111						
4	707.5	260.0	0.0	v=111111						
5	1185.7	-102.7	0.0	v=111111						
6	1291.6	132.6	0.0	v=111111						
7	1723.4	1091.9	0.0	v=111111						
8	1225.6	1256.6	0.0	v=111111						
9	1007.9	230.7	0.0	v=111111						
10	707.5	1310.0	0.0	v=111111						
11	353.7	-5.64e-03	0.0	v=111111						
12	353.8	1310.0	0.0	v=111111						
13	4.27e-03	280.0	0.0	v=111111						
14	1.25e-02	805.0	1.51e-06	v=111111						
33	8.29e-03	545.0	0.0	v=111111						
76	1.71e-02	1070.0	0.0	v=111111						



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

14_MOD_NUMERAZIONE_NODI

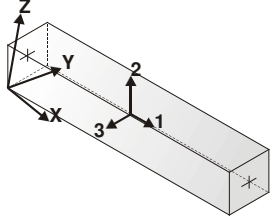
MODELLAZIONE STRUTTURA: ELEMENTI TRAVE

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.

 orientamento elementi 2D non verticali	 orientamento elementi 2D verticali
---	---

In particolare per ogni elemento viene indicato in tabella:

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

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

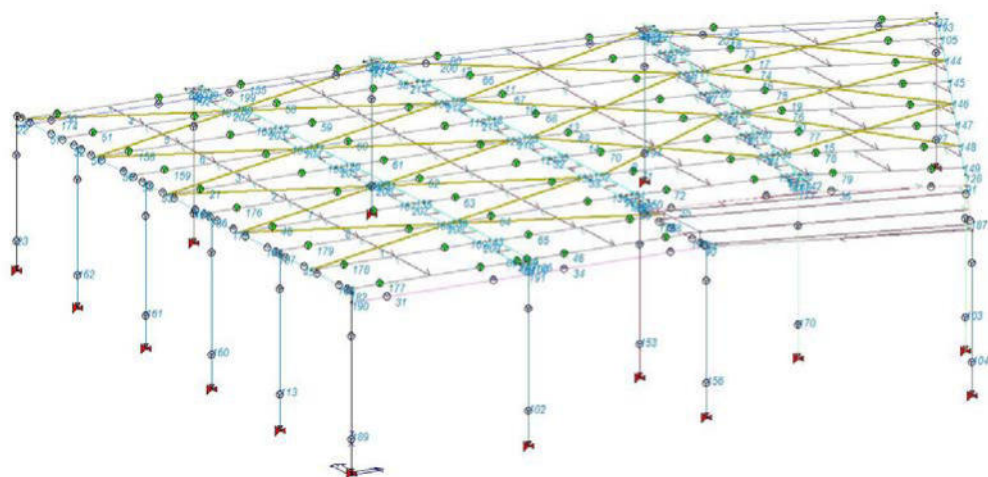
Test N°	Titolo
2	TRAVI A UNA CAMPATA
3	TRAVE A PIU' CAMPATE
4	TRAVE A UNA CAMPATA SU TERRENO ALLA WINKLER
5	TRAVI SU TERRENO ALLA WINKLER CON CARICO TRASVERSALE
6	TELAI PIANI CON CERNIERE ALLA BASE
7	TELAI PIANI CON INCASTRI ALLA BASE
11	STRUTTURE SOGGETTE A VARIAZIONI TERMICHE
12	STRUTTURE SU TERRENO ALLA WINKLER SOTTOPOSTE A CARICHI DISTRIBUITI TRIANGOLARI
21	DRILLING
24	TENSIONI E ROTAZIONI RISPETTO ALLA CORDA DI ELEMENTI TRAVE
27	FRECCIA DI ELEMENTI TRAVE
42	GERARCHIA DELLE RESISTENZE PER TRAVI IN C.A.
43	GERARCHIA DELLE RESISTENZE PER PILASTRI IN C.A.
44	VERIFICA ALLE TA DI STRUTTURE IN C.A.
45	VERIFICA AGLI SLU DI STRUTTURE IN C.A.
47	VERIFICA A PUNZONAMENTO ALLO SLU DI TRAVI IN C.A.
48	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 9/1/96
49	PROGETTAZIONE A TAGLIO DI STRUTTURE IN C.A. SECONDO IL D.M. 14/1/2008
50	VERIFICA ALLO SLE (TENSIONI E FESSURAZIONE) DI STRUTTURE IN C.A.
51	VERIFICA ALLO SLE (DEFORMAZIONE) DI STRUTTURE IN C.A.
52	FATTORE DI STRUTTURA
53	SOVRARESISTENZE
54	DETTAGLI COSTRUTTIVI C.A.: LIMITI D'ARMATURA PILASTRI E NODI TRAVE-PILASTRO
56	VERIFICA DI STABILITA' DI ASTE COMPRESSE IN ACCIAIO – METODO OMEGA
57	LUCE LIBERA DI TRAVI E ASTE IN ACCIAIO
58	LUCE LIBERA DI COLONNE IN ACCIAIO
59	SVERGOLAMENTO DI TRAVI IN ACCIAIO
64	STABILITA' DI ASTE COMPOSTE IN ACCIAIO
73	VALUTAZIONE EFFETTO P- δ SU PILASTRATA
74	VALUTAZIONE EFFETTO P- δ SU TELAIO 3D
85	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
87	ANALISI ELASTO PLASTICA INCREMENTALE
88	ANALISI ELASTO PLASTICA INCREMENTALE
98	VERIFICA ALLO SLU DI STRUTTURE IN LEGNO SECONDO EC5
99	VERIFICA ALLO SLE DI STRUTTURE IN LEGNO SECONDO EC5
102	SNELLEZZE EC5
130	PROGETTO E VERIFICA DI TRAVI PREM

Elem.	Note	Nodo I	Nodo J	Mat.	Sez.	Rotaz. gradi	Svincolo I	Svincolo J	Wink V daN/cm3	Wink O daN/cm3
1	Asta tesa	24	93	11	18					
2	Asta tesa	17	93	11	18					
3	Asta tesa	17	85	11	18					
4	Asta tesa	66	85	11	18					
5	Asta tesa	78	25	11	18					
6	Asta tesa	78	89	11	18					
7	Asta tesa	69	89	11	18					
8	Asta tesa	69	20	11	18					
9	Asta tesa	109	104	11	18					
10	Asta tesa	101	104	11	18					
11	Asta tesa	101	127	11	18					
12	Asta tesa	126	100	11	18					
13	Asta tesa	105	100	11	18					
14	Asta tesa	105	108	11	18					
15	Asta tesa	123	118	11	18					
16	Asta tesa	115	118	11	18					
17	Asta tesa	115	65	11	18					
18	Asta tesa	64	114	11	18					
19	Asta tesa	119	114	11	18					
20	Asta tesa	119	122	11	18					
21	Trave	17	73	55	12		000011	000011		
22	Pilas.	30	61	1	14	90.00				
23	Pilas.	1	30	1	14	90.00				
24	Pilas.	12	31	1	1					
25	Trave	26	45	1	1					
26	Trave	27	51	1	1					
27	Pilas.	7	34	1	1	-24.23				
28	Trave	28	55	1	1					
29	Pilas.	38	43	1	16					
30	Trave	107	105	55	13					
31	Trave	35	36	1	7					
32	Trave	91	107	55	17					
33	Trave	93	109	55	17					
34	Trave	36	37	1	7					
35	Trave	38	39	1	8					
36	Trave	39	40	1	8					
37	Trave	65	29	55	13					
38	Trave	83	25	55	13					
39	Trave	80	45	55	13					
40	Trave	72	47	55	13					
41	Trave	25	49	55	13					
42	Trave	126	51	55	13					
43	Trave	127	53	55	13					
44	Pilas.	16	27	1	3					
45	Trave	24	32	1	5					
46	Trave	59	58	55	12		000011	000011		
47	Trave	66	61	1	5					
48	Trave	69	77	55	12		000011	000011		
49	Trave	64	65	55	12		000011	000011		
50	Trave	66	72	55	12		000011	000011		
51	Trave	74	67	55	12		000011	000011		
52	Trave	60	74	1	5					
53	Trave	17	62	1	5					
54	Trave	78	60	1	5					
55	Trave	62	70	1	5					
56	Trave	70	78	1	5					
57	Trave	74	66	1	5					
58	Trave	82	83	55	12		000011	000011		
59	Trave	84	85	55	12		000011	000011		
60	Trave	86	87	55	12		000011	000011		
61	Trave	88	89	55	12		000011	000011		
62	Trave	90	91	55	12		000011	000011		
63	Trave	92	93	55	12		000011	000011		
64	Trave	94	95	55	12		000011	000011		
65	Trave	96	20	55	12		000011	000011		
66	Trave	99	98	55	12		000011	000011		
67	Trave	101	100	55	12		000011	000011		
68	Trave	103	102	55	12		000011	000011		
69	Trave	105	104	55	12		000011	000011		
70	Trave	107	106	55	12		000011	000011		
71	Trave	109	108	55	12		000011	000011		
72	Trave	111	110	55	12		000011	000011		
73	Trave	113	112	55	12		000011	000011		
74	Trave	115	114	55	12		000011	000011		
75	Trave	117	116	55	12		000011	000011		
76	Trave	119	118	55	12		000011	000011		

77	Trave	121	120	55	12	000011	000011
78	Trave	123	122	55	12	000011	000011
79	Trave	125	124	55	12	000011	000011
80	Trave	126	127	55	12	000011	000011
81	Trave	47	26	1	1		
82	Trave	49	27	1	1		
83	Trave	53	28	1	1		
84	Trave	46	19	1	1		
85	Trave	48	43	1	1		
86	Trave	43	50	1	1		
87	Trave	52	128	1	1		
88	Trave	128	54	1	1		
89	Trave	57	81	55	13		
90	Trave	37	21	1	8		
91	Pilas.	40	41	1	4	-24.23	
92	Trave	95	111	55	17		
93	Trave	110	125	55	17		
94	Trave	108	123	55	17		
95	Trave	106	121	55	17		
96	Trave	104	119	55	17		
97	Trave	102	117	55	17		
98	Trave	100	115	55	17		
99	Trave	98	113	55	17		
100	Trave	19	44	1	1		
101	Trave	127	64	55	17		
102	Pilas.	11	36	1	3	90.00	
103	Pilas.	6	40	1	4	-24.23	
104	Pilas.	5	23	1	3	-114.23	
105	Trave	112	65	55	13		
106	Trave	44	59	55	13		
107	Trave	46	57	55	13		
108	Trave	85	83	55	13		
109	Trave	101	99	55	13		
110	Trave	100	98	55	13		
111	Trave	115	113	55	13		
112	Trave	84	82	55	13		
113	Pilas.	13	32	1	2	90.00	
114	Trave	99	126	55	13		
115	Trave	98	127	55	13		
116	Trave	59	96	55	13		
117	Trave	87	85	55	13		
118	Trave	103	101	55	13		
119	Trave	102	100	55	13		
120	Trave	117	115	55	13		
121	Trave	86	84	55	13		
122	Trave	89	87	55	13		
123	Trave	105	103	55	13		
124	Trave	104	102	55	13		
125	Trave	119	117	55	13		
126	Trave	88	86	55	13		
127	Trave	91	89	55	13		
128	Trave	41	124	55	13		
129	Trave	106	104	55	13		
130	Trave	121	119	55	13		
131	Trave	90	88	55	13		
132	Trave	93	91	55	13		
133	Trave	108	106	55	13		
134	Trave	123	121	55	13		
135	Trave	92	90	55	13		
136	Trave	95	93	55	13		
137	Trave	110	108	55	13		
138	Trave	125	123	55	13		
139	Trave	94	92	55	13		
140	Trave	48	95	55	13		
141	Trave	52	110	55	13		
142	Trave	54	125	55	13		
143	Trave	96	94	55	13		
144	Trave	114	112	55	13		
145	Trave	116	114	55	13		
146	Trave	118	116	55	13		
147	Trave	120	118	55	13		
148	Trave	122	120	55	13		
149	Trave	124	122	55	13		
150	Trave	50	111	55	13		
151	Trave	111	109	55	13		
152	Trave	109	107	55	13		
153	Pilas.	4	38	1	16		
154	Pilas.	21	58	1	12		

155	Trave	80	25	55	12		000011	000011
156	Pilas.	3	37	1	3	90.00		
157	Trave	32	97	1	5			
158	Trave	78	68	55	12		000011	000011
159	Trave	70	71	55	12		000011	000011
160	Pilas.	33	63	1	2	90.00		
161	Pilas.	14	62	1	2	90.00		
162	Pilas.	76	60	1	2	90.00		
163	Trave	68	67	55	13			
164	Trave	71	68	55	13			
165	Trave	73	71	55	13			
166	Trave	75	73	55	13			
167	Trave	77	75	55	13			
168	Trave	79	77	55	13			
169	Trave	81	79	55	13			
170	Pilas.	9	39	1	4	-12.12		
171	Pilas.	39	128	1	4	-12.12		
172	Trave	22	38	1	8			
173	Trave	21	22	1	8			
174	Trave	30	31	1	6			
175	Trave	69	63	1	5			
176	Trave	42	75	55	12		000011	000011
177	Trave	56	57	55	12		000011	000011
178	Trave	24	81	55	12		000011	000011
179	Trave	97	79	55	12		000011	000011
180	Trave	82	80	55	13			
181	Trave	67	72	55	13			
182	Trave	18	56	1	5			
183	Trave	42	17	1	5			
184	Trave	97	69	1	5			
185	Trave	56	24	1	5			
186	Trave	63	42	1	5			
187	Trave	23	40	1	8			
188	Pilas.	22	20	1	12			
189	Pilas.	2	35	1	14	90.00		
190	Pilas.	35	18	1	14	90.00		
191	Pilas.	36	19	1	3	90.00		
192	Pilas.	31	26	1	1			
193	Pilas.	34	29	1	1	-24.23		
194	Pilas.	8	15	1	3			
195	Pilas.	10	16	1	3			
196	Pilas.	15	28	1	3			
197	Trave	64	55	55	13			
198	Trave	113	64	55	13			
199	Trave	31	16	1	6			
200	Trave	16	15	1	6			
201	Trave	15	34	1	6			
202	Trave	67	82	55	17			
203	Trave	68	84	55	17			
204	Trave	71	86	55	17			
205	Trave	73	88	55	17			
206	Trave	75	90	55	17			
207	Trave	77	92	55	17			
208	Trave	79	94	55	17			
209	Trave	81	96	55	17			
210	Trave	57	59	55	12		000011	000011
211	Trave	72	80	55	17			
212	Trave	25	126	55	17			
213	Trave	83	99	55	17			
214	Trave	85	101	55	17			
215	Trave	87	103	55	17			
216	Trave	89	105	55	17			

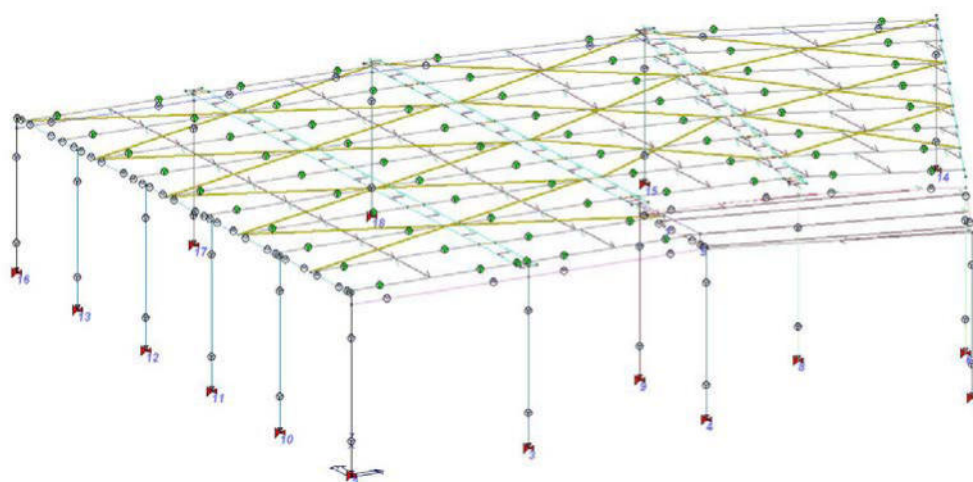
MODELLO



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

15_MOD_NUMERAZIONE_D2

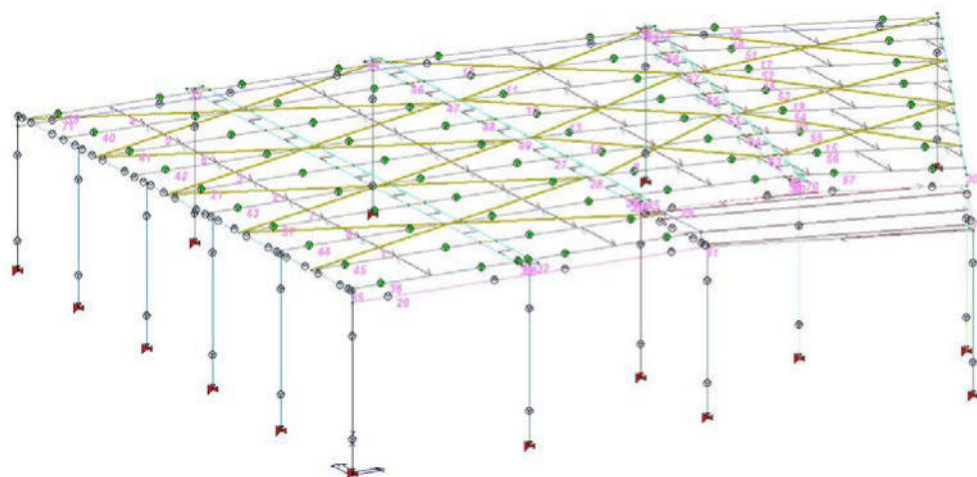
MODELLO



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

15_MOD_NUMERAZIONE_D2_PILASTRATE

MODELLO



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

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 <i>Variab.</i> Carico variabile generico <i>Var. rid.</i> Carico variabile generico con riduzione in funzione dell' area (c.5.5. ...) <i>Neve</i> 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: <i>per valore raro</i>
Psi 1	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: <i>per valore frequente</i>
Psi 2	Coefficiente combinatorio dei valori caratteristici delle azioni variabili: <i>per valore quasi permanente</i>
Psi S 2	Coefficiente di combinazione che fornisce il valore quasi-permanente dell'azione variabile: <i>per la definizione delle masse sismiche</i>
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 <i>S</i> elemento utilizzato solo per scarico <i>C</i> elemento utilizzato per scarico e per modellazione piano rigido <i>P</i> elemento utilizzato come pannello <i>M</i> scarico monodirezionale <i>B</i> 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 cinematisimo 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 mezzzeria
Ver. c.d.	Verifica nell'ipotesi di trave appoggiata con carico distribuito
Ver. c.cin.	Verifica nell'ipotesi di cinematisimo con formazione di cerniere plastiche in appoggio e mezzzeria
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

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

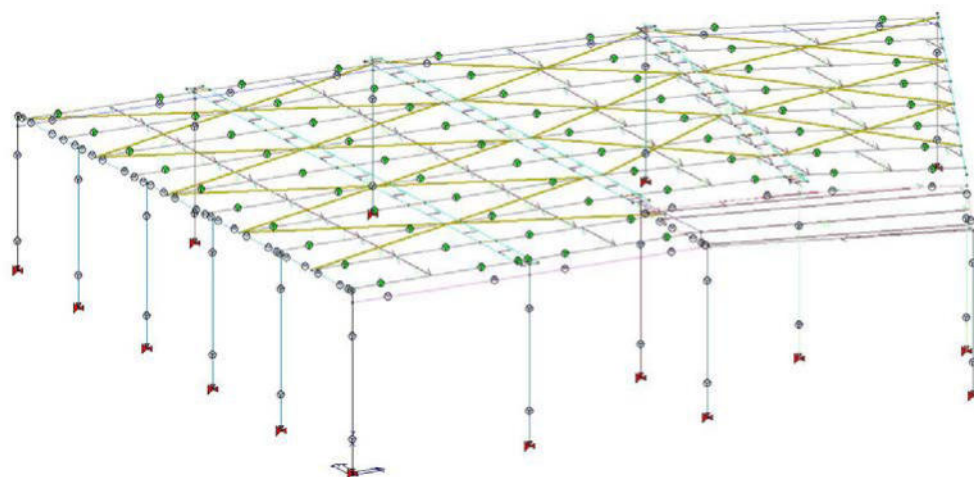
Test N°	Titolo
14	ANALISI DEI CARICHI PER UN SOLAIO DI COPERTURA

15	EFFETTI DELLO SPESSORE SULLA RIGIDEZZA DEI SOLAI
16	SOLAIO: CONFRONTO FRA RIGIDO E DEFORMABILE
17	SOLAIO: MISTO LEGNO-CALCESTRUZZO
28	FRECCIA DI SOLAI IN C.A.
119	PROGETTO E VERIFICA DI SOLAI IN MATERIALE XLAM

ID Arch.	Tipo	G1k daN/cm2	G2k daN/cm2	Qk daN/cm2	Fatt. A	s sis.	Psi 0	Psi 1	Psi 2	Psi S 2	Fatt. Fi
1	Variab.	4.50e-02	1.00e-02	2.00e-02		1.00	0.70	0.50	0.30	0.30	1.00
6	Neve	1.75e-03	3.00e-03	1.00e-02		1.00	0.50	0.20	0.0	0.0	1.00

Elem.	Tipo	ID Arch.	Mat.	Spessore	Orditura	G1k daN/cm2	G2k daN/cm2	Qk daN/cm2	Nodo 1/6..	Nodo 2/7..	Nodo 3/8..	Nodo..	Nodo..
1	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	72	66	74	67	
2	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	67	74	60	78	68
3	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	68	78	70	71	
4	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	71	70	62	17	73
5	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	73	17	42	75	
6	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	75	42	63	69	77
7	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	77	69	97	79	
8	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	79	97	32	24	81
9	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	81	24	56	57	
10	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	82	83	25	80	
11	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	82	84	85	83	
12	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	84	86	87	85	
13	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	86	88	89	87	
14	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	88	90	91	89	
15	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	90	92	93	91	
16	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	92	94	95	93	
17	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	96	59	58	20	
18	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	94	96	20	43	48
									95				
19	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	127	126	99	98	
20	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	98	99	101	100	
21	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	100	101	103	102	
22	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	102	103	105	104	
23	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	104	105	107	106	
24	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	106	107	109	108	
25	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	108	109	111	110	
26	CM	6	m=48	3.0	0.0	1.75e-03	3.00e-03	1.00e-02	45	80	82	84	86
									88	90	92	94	96
									59	44	19	46	57
									81	79	77	75	73
									71	68	67	72	47
27	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	112	113	115	114	
28	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	114	115	117	116	
29	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	116	117	119	118	
30	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	118	119	121	120	
31	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	120	121	123	122	
32	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	122	123	125	124	
33	CM	6	m=48	3.0	0.0	1.75e-03	3.00e-03	1.00e-02	27	49	25	83	85
									87	89	91	93	95
									48	43	50	111	109
									107	105	103	101	99
									126	51			
34	CM	6	m=48	3.0	90.0	1.75e-03	3.00e-03	1.00e-02	112	65	64	113	
35	CM	6	m=48	3.0	0.0	1.75e-03	3.00e-03	1.00e-02	55	28	53	127	98
									100	102	104	106	108
									110	52	128	54	125
									123	121	119	117	115
									113	64			
36	PM		m=11	2.0	350.0				39	40	23	37	21
									22	38			

MODELLO



SCUOLA_PETRIOLO_CLS_SF_PUSH_OVER.PSP

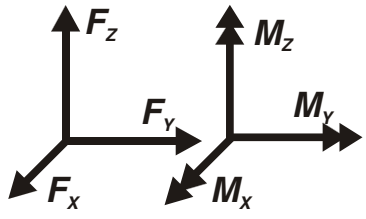
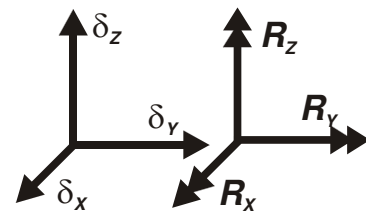
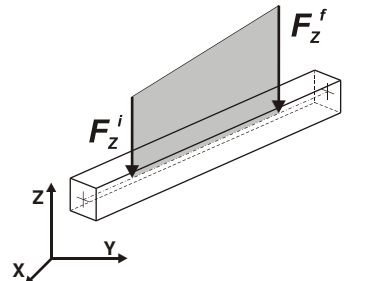
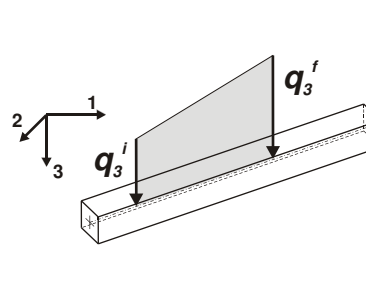
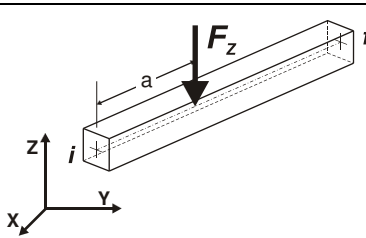
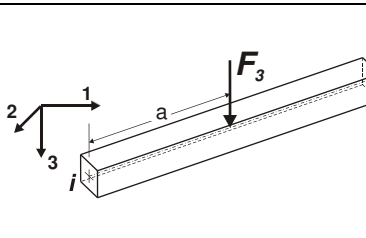
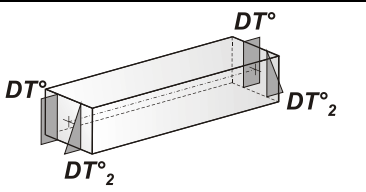
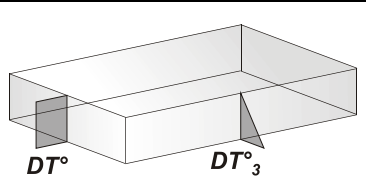
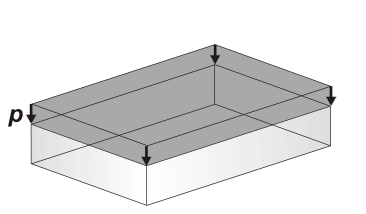
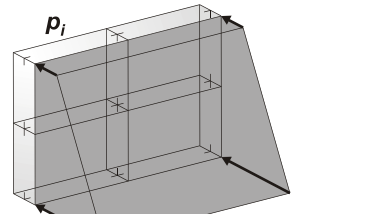
17_MOD_NUMERAZIONE_SOLAI

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

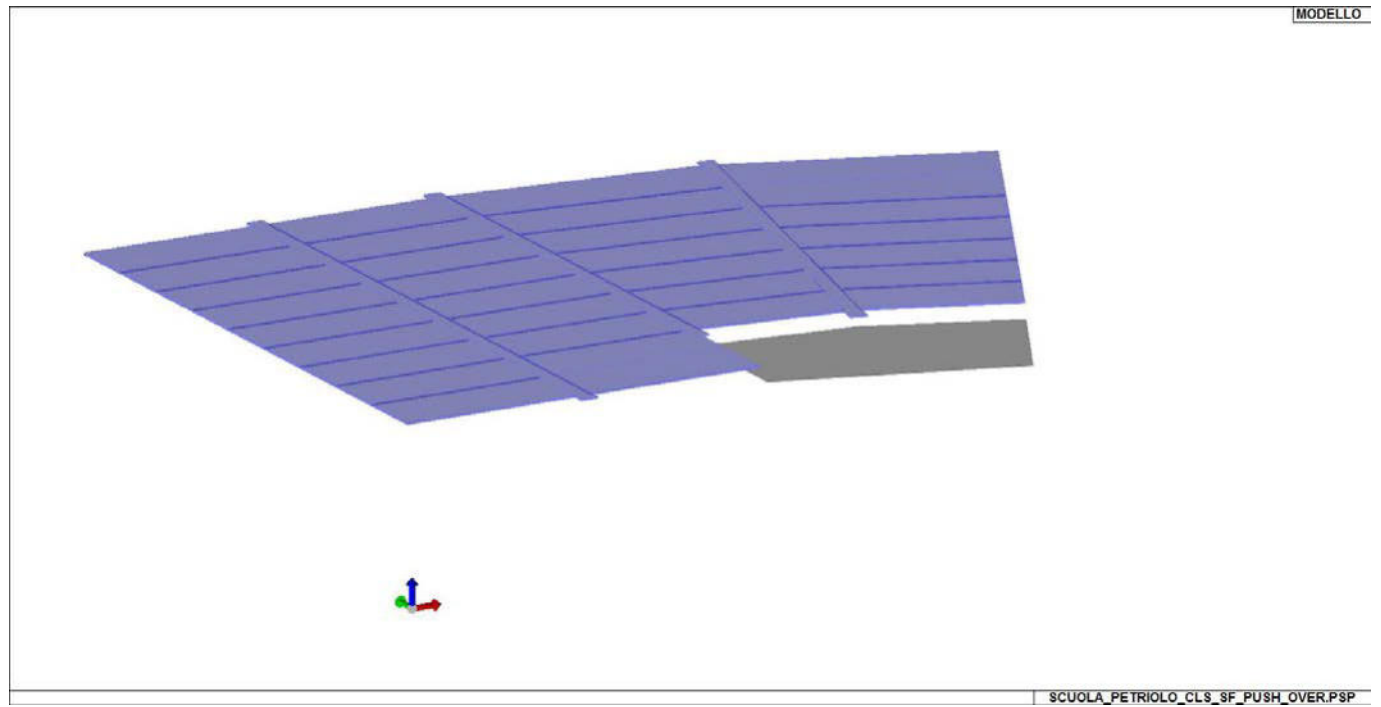
Tipo carico distribuito globale su trave

Id	Tipo	Pos.	fx	fy	fz	mx	my	mz
		cm	daN/cm	daN/cm	daN/cm	daN	daN	daN
12	DG:Fzi=-5.80 Fzf=-5.80	0.0	0.0	0.0	-5.80	0.0	0.0	0.0
		0.0	0.0	0.0	-5.80	0.0	0.0	0.0

Tipo carico variabile generale

Id	Tipo	ascissa	valore	ascissa	valore
		cm	daN/cm2	cm	daN/cm2
9	carico G1 pannello-QV:var x - Qz - Area				

Id	Tipo	ascissa	valore	ascissa	valore
	X - X Qz Area L2=0.0	-1.000e+05	-1.00e-03	1.000e+05	-1.00e-03
10	carico G2 pannello-QV:var x - Qz - Area				
	X - X Qz Area L2=0.0	-1.000e+05	-1.00e-03	1.000e+05	-1.00e-03



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:

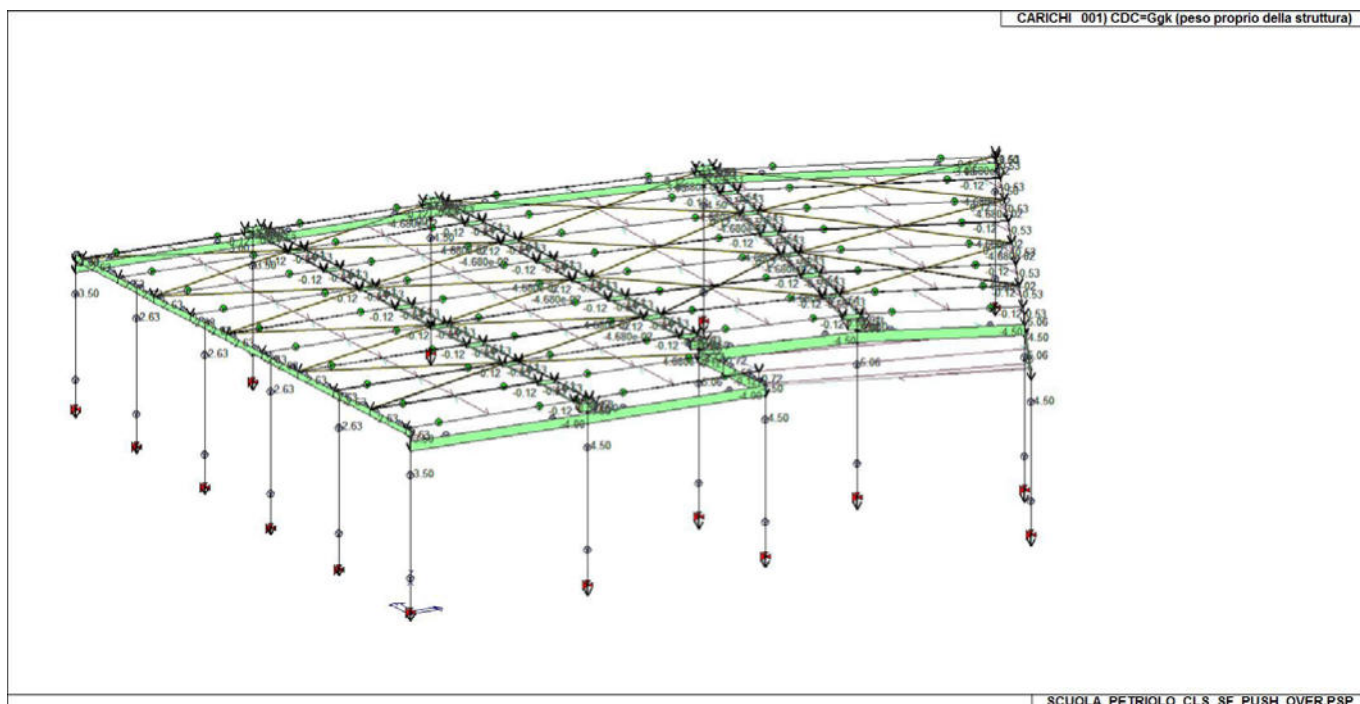
Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).

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	Gsk	CDC=G2pk (permanente pannelli n.c.d.)	
5	Qnk	CDC=Qnk (carico da neve)	
6	Gk	CDC=G2k (permanente generico n.c.d.)	D2 : 45 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 : 47 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 :da 52 a 57 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 : 105 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 : 128 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 :da 144 a 149 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 : 157 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 :da 174 a 175 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 :da 182 a 186 Azione : DG:Fzi=-5.80 Fzf=-5.80 D2 :da 199 a 201 Azione : DG:Fzi=-5.80 Fzf=-5.80 Pannello: 36 Azione : carico G2 pannello-QV:var x - Qz - Area Pannello: 36 Azione : carico G1 pannello-QV:var x - Qz - Area
7	Qk	CDC=Qk (variabile generico)	
8	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] 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=G2pk (permanente pannelli n.c.d.) partecipazione:1.00 per 5 CDC=Qnk (carico da neve) partecipazione:1.00 per 6 CDC=G2k (permanente generico n.c.d.)

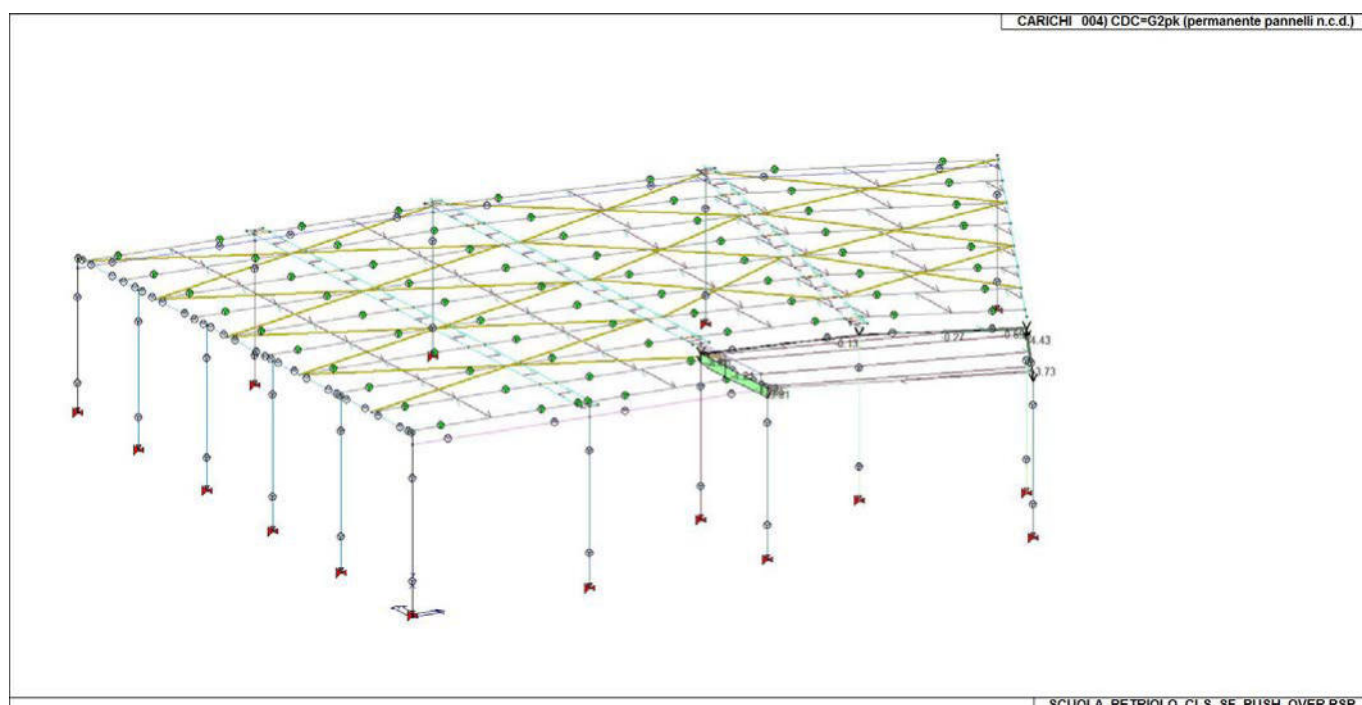
CDC	Tipo	Sigla Id	Note
			partecipazione:0.80 per 7 CDC=Gk (variabile generico)
9	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=0.0 (ecc. -)	come precedente CDC sismico
10	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=90.00 (ecc. +)	come precedente CDC sismico
11	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=90.00 (ecc. -)	come precedente CDC sismico
12	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=0.0 (ecc. +)	come precedente CDC sismico
13	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=0.0 (ecc. -)	come precedente CDC sismico
14	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=90.00 (ecc. +)	come precedente CDC sismico
15	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=90.00 (ecc. -)	come precedente CDC sismico
16	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=0.0 (ecc. +)	come precedente CDC sismico
17	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=0.0 (ecc. -)	come precedente CDC sismico
18	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=90.00 (ecc. +)	come precedente CDC sismico
19	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=90.00 (ecc. -)	come precedente CDC sismico
20	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=0.0 (ecc. +)	come precedente CDC sismico
21	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=0.0 (ecc. -)	come precedente CDC sismico
22	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=90.00 (ecc. +)	come precedente CDC sismico
23	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=90.00 (ecc. -)	come precedente CDC sismico
24	Esk	CDC=Es (statico SLO)- [prop. statica] alfa=0.0 (ecc. +)	come precedente CDC sismico
25	Esk	CDC=Es (statico SLO)- [prop. statica] alfa=0.0 (ecc. -)	come precedente CDC sismico
26	Esk	CDC=Es (statico SLO)- [prop. statica] alfa=90.00 (ecc. +)	come precedente CDC sismico
27	Esk	CDC=Es (statico SLO)- [prop. statica] alfa=90.00 (ecc. -)	come precedente CDC sismico
28	Esk	CDC=Es (statico SLO)- (prop. masse) alfa=0.0 (ecc. +)	come precedente CDC sismico
29	Esk	CDC=Es (statico SLO)- (prop. masse) alfa=0.0 (ecc. -)	come precedente CDC sismico
30	Esk	CDC=Es (statico SLO)- (prop. masse) alfa=90.00 (ecc. +)	come precedente CDC sismico
31	Esk	CDC=Es (statico SLO)- (prop. masse) alfa=90.00 (ecc. -)	come precedente CDC sismico



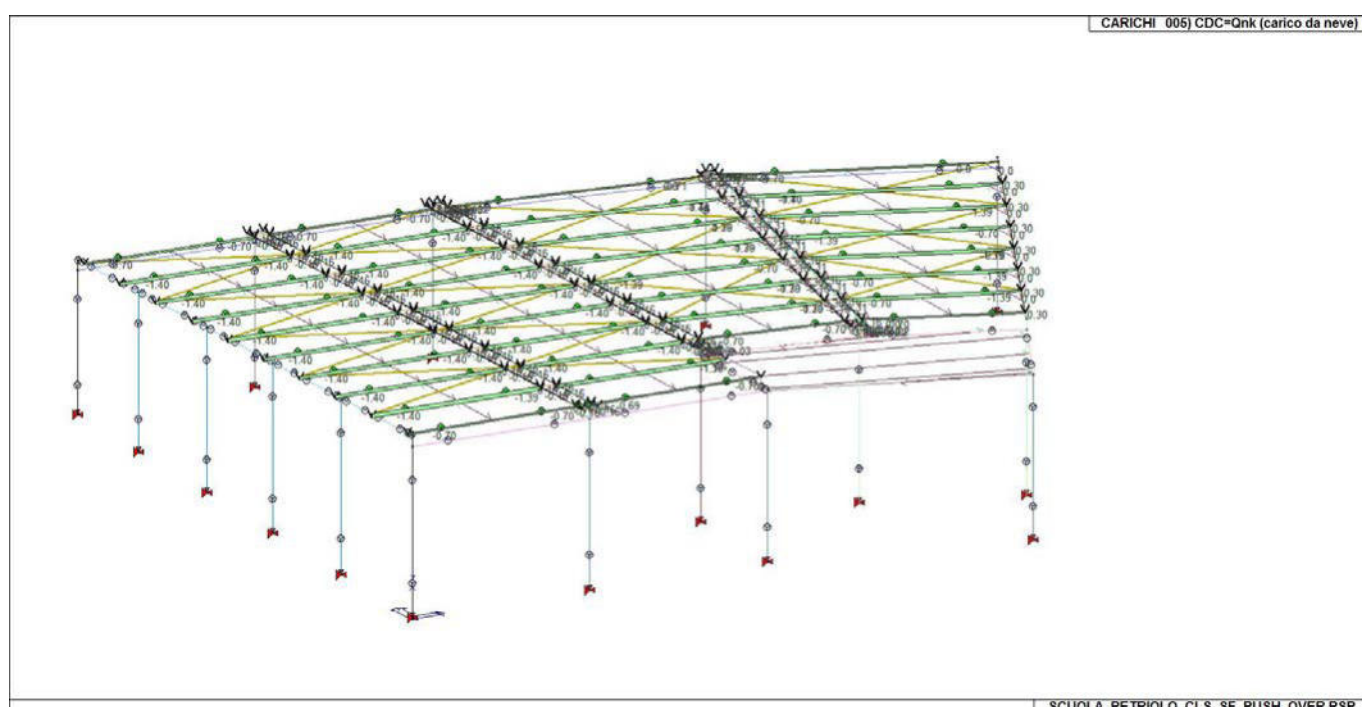
22_CDC_001_CDC=Ggk (peso proprio della struttura)

3D finite element analysis (FEA) model of a roof structure. The model shows a grid of nodes and elements, with various boundary conditions and loads applied. The structure is supported by columns and has a complex, sloped roof profile. The analysis results are displayed as a color-coded mesh, indicating stress or displacement values across the structure.

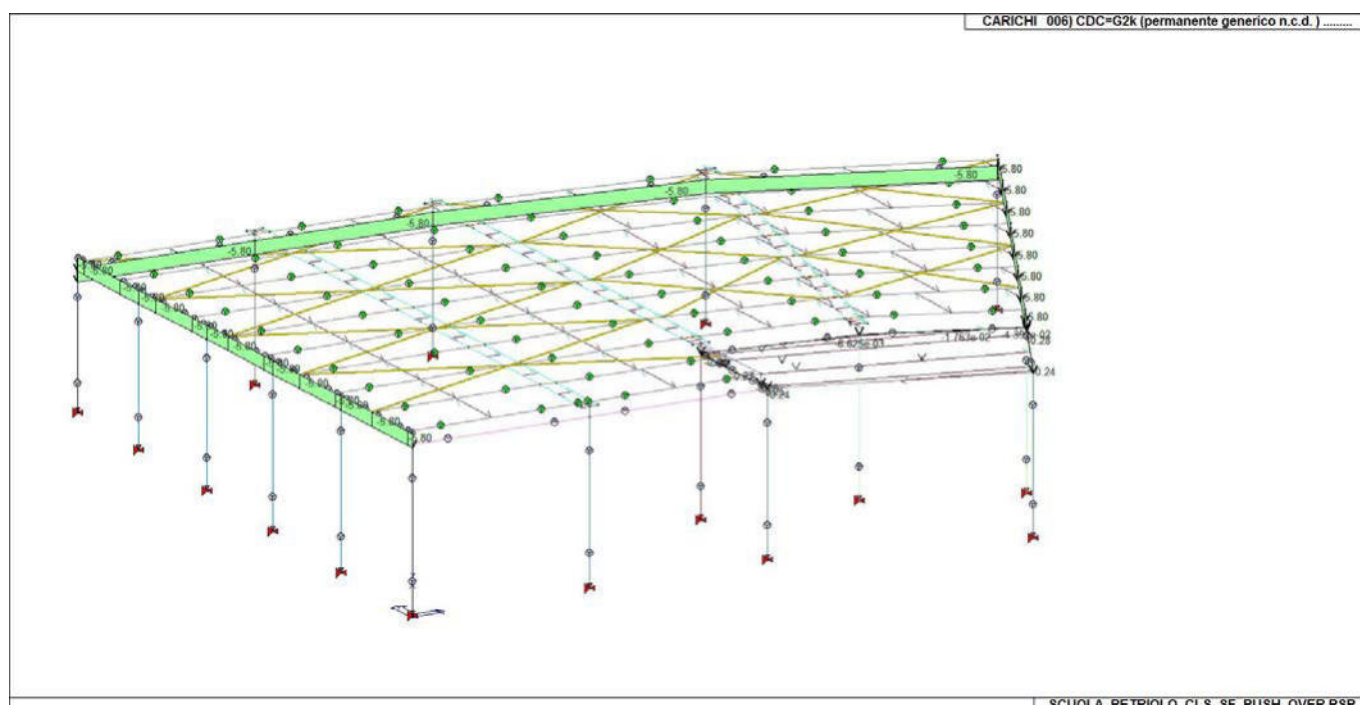
55



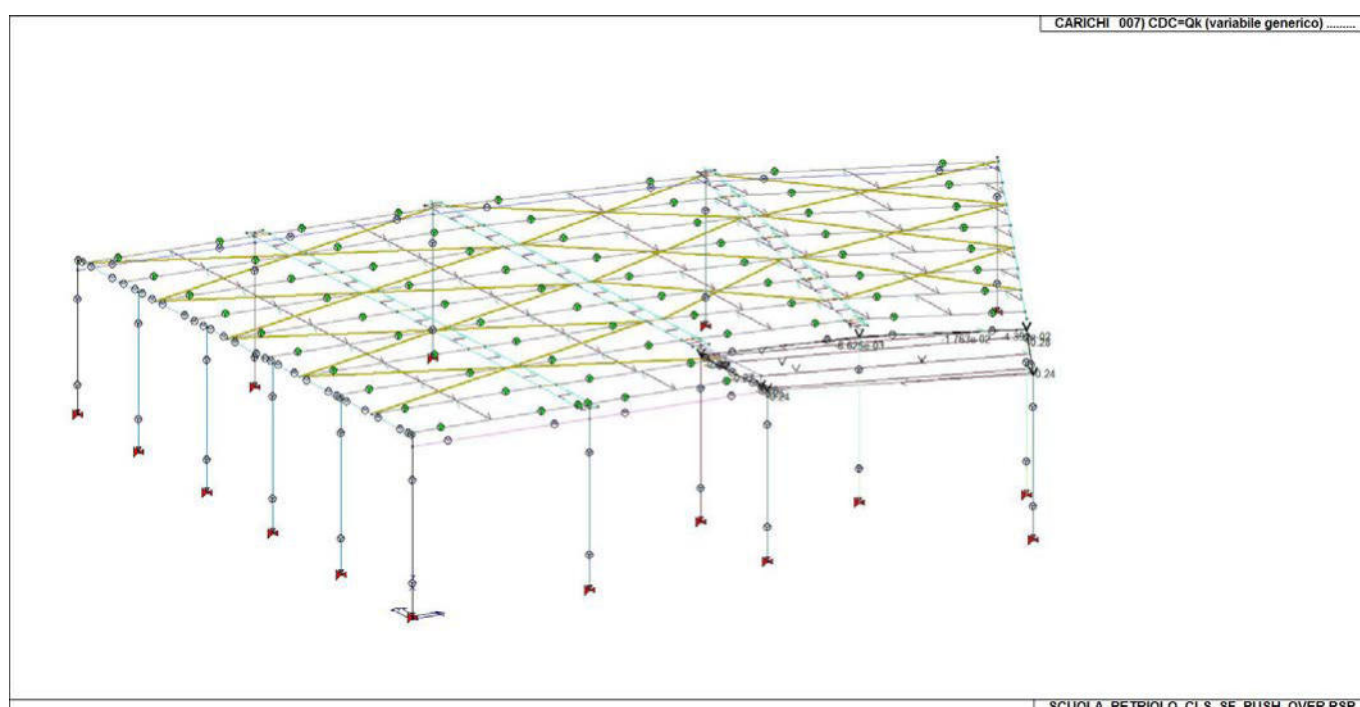
22_CDC_004_CDC=G2pk (permanente pannelli n.c.d.)



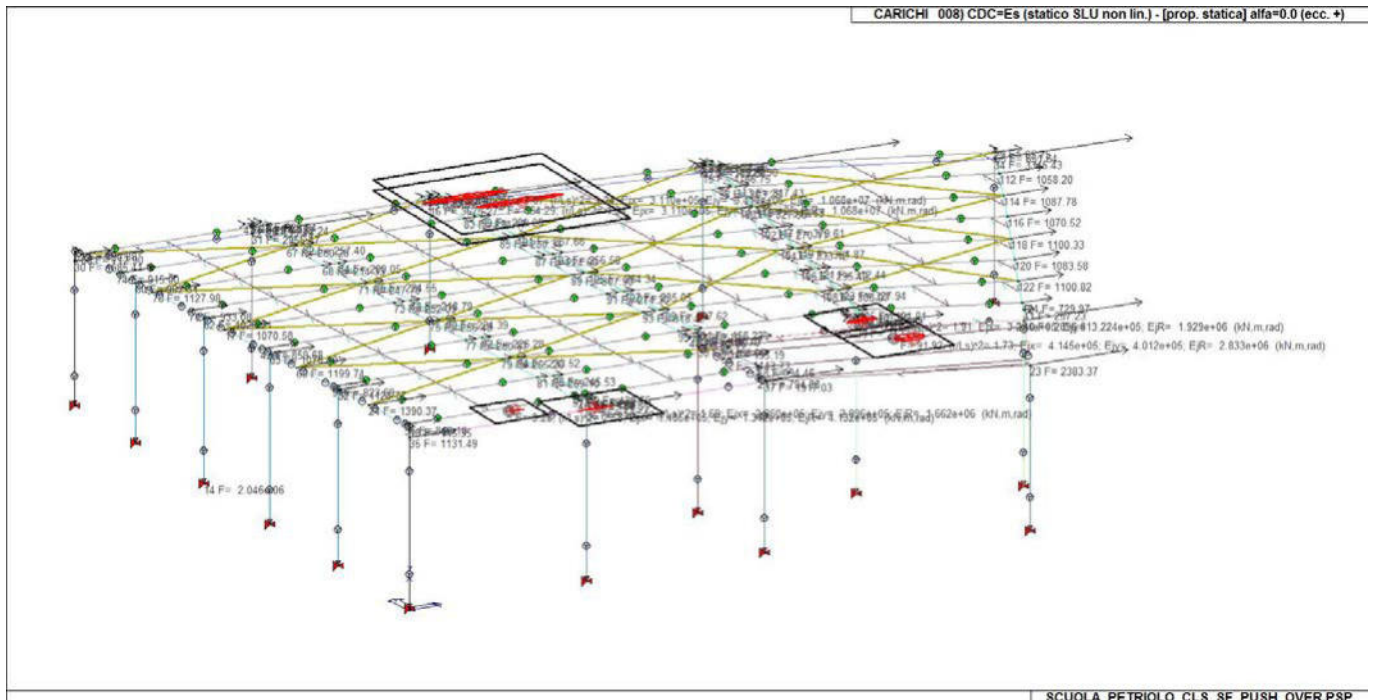
22_CDC_005_CDC=Qnk (carico da neve)



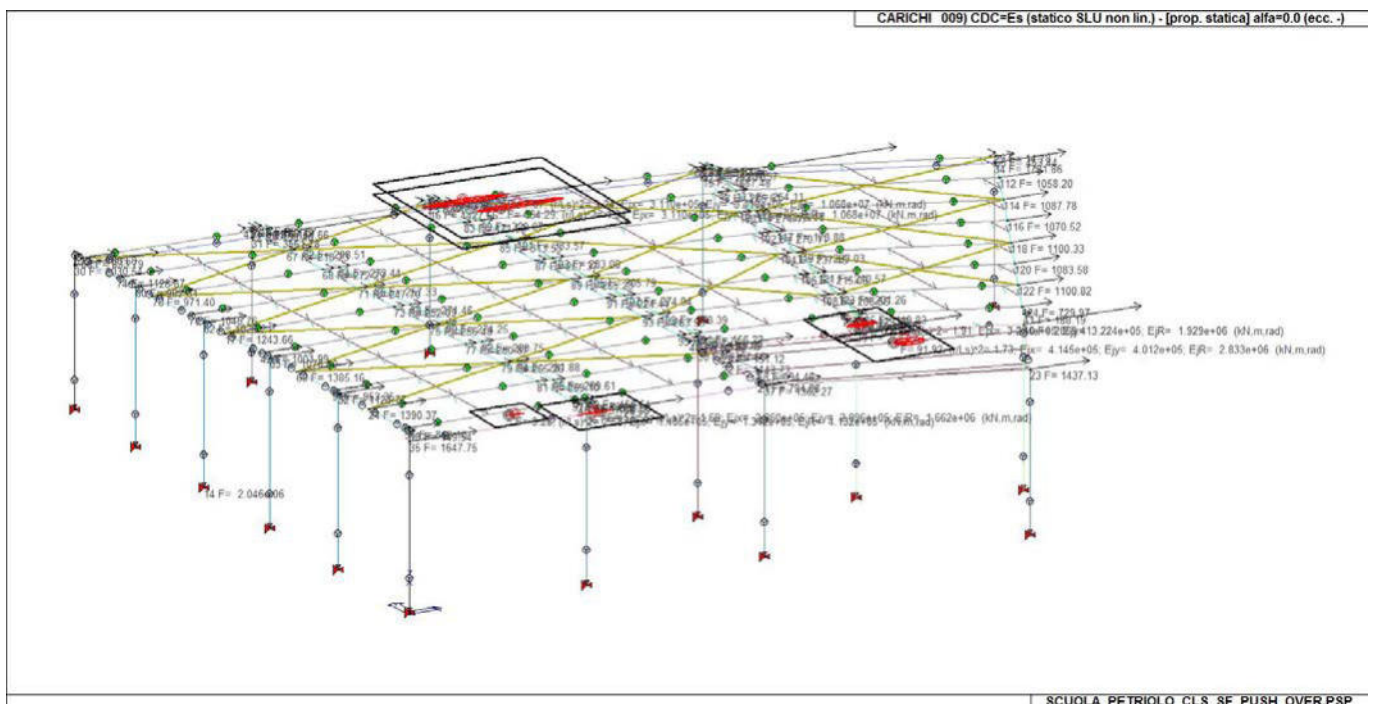
22_CDC_006_CDC=G2k (permanente generico n.c.d.)



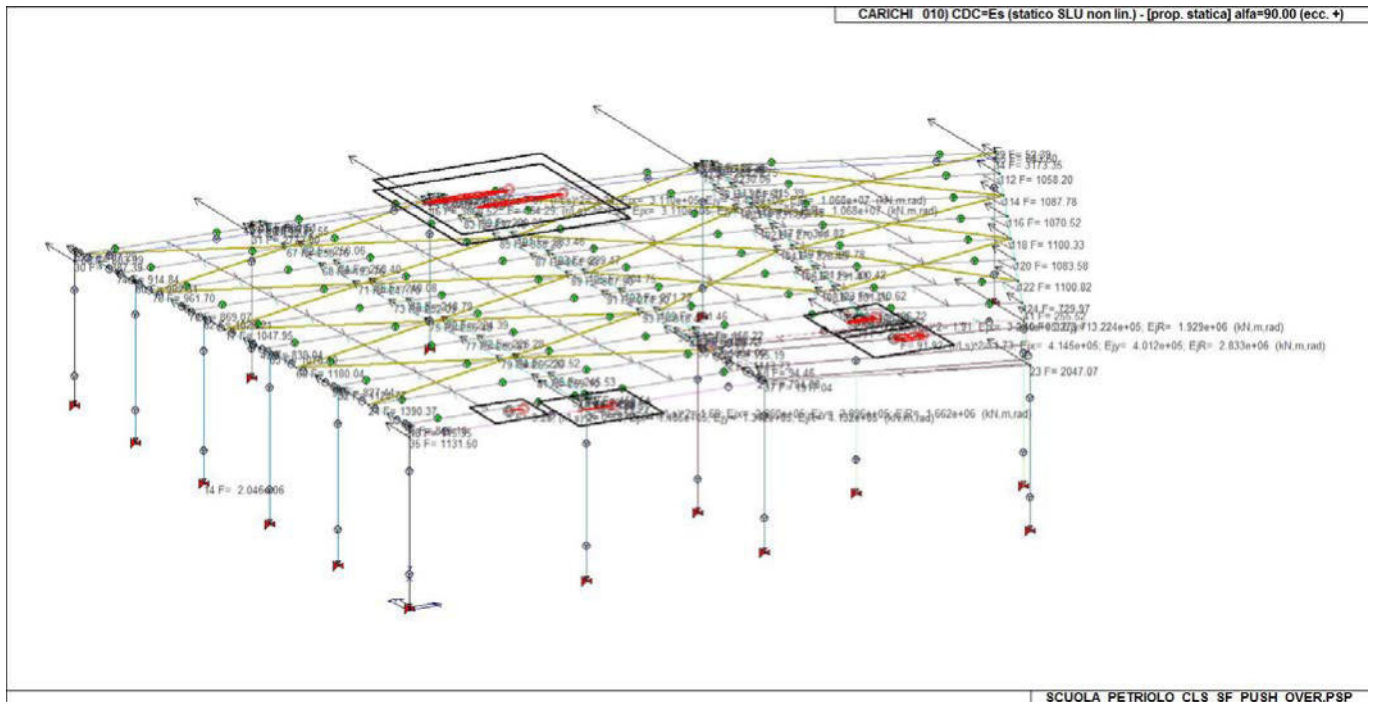
22_CDC_007_CDC=Qk (variabile generico)



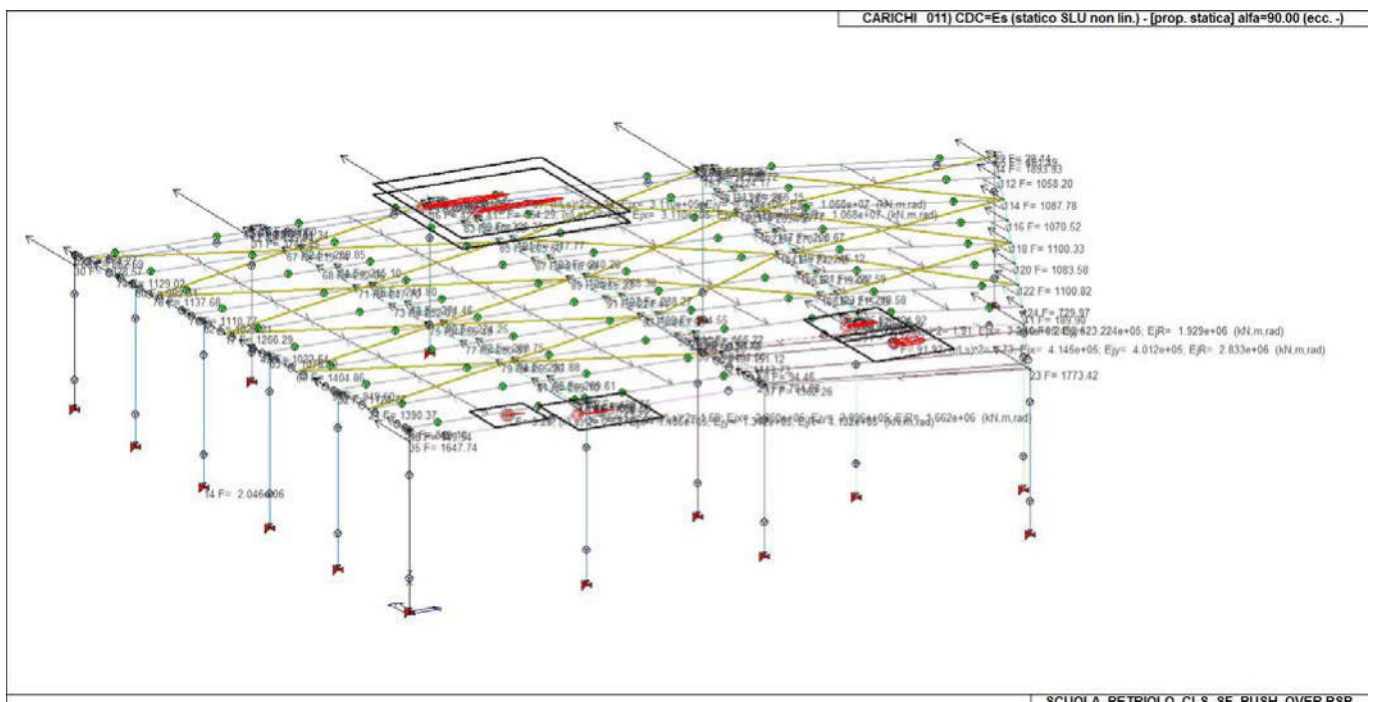
22_CDC_008_CDC=Es (statico SLU non lin.) - [prop. statica] alfa=0.0 (ecc. +)



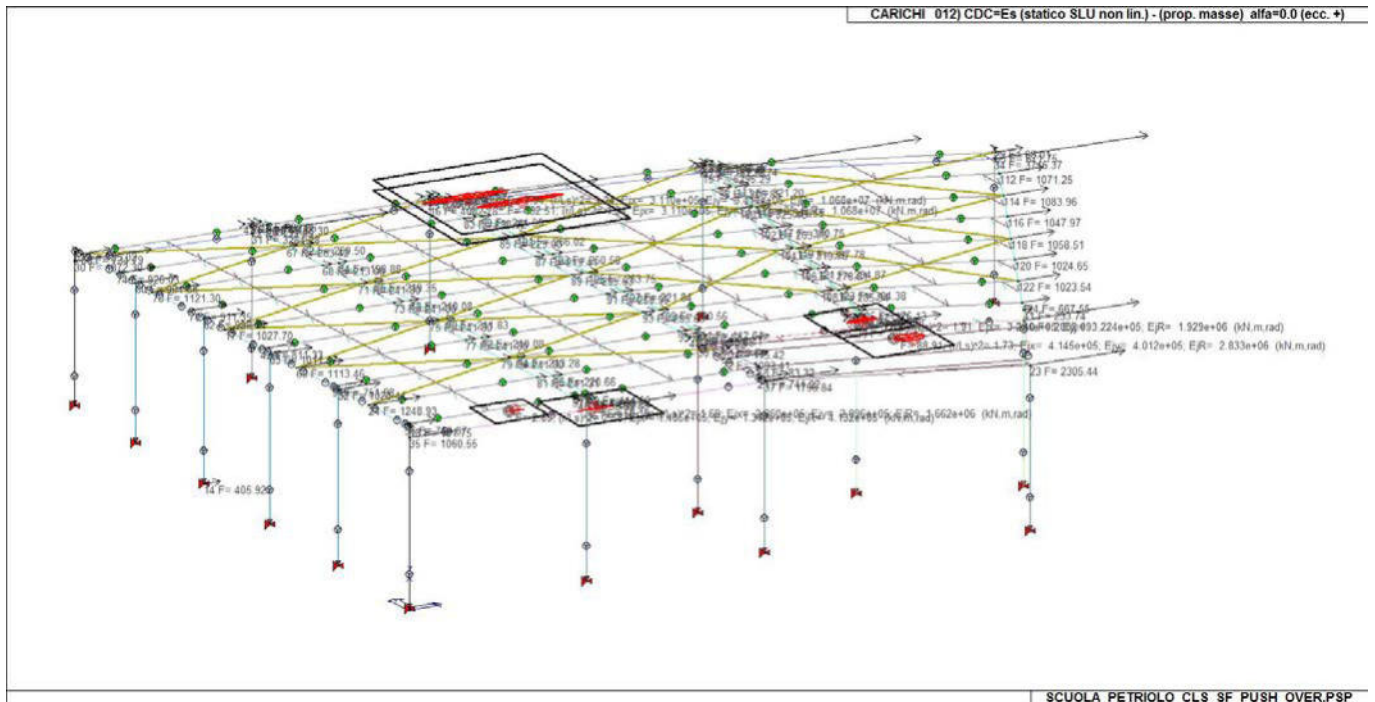
22_CDC_009_CDC=Es (statico SLU non lin.) - [prop. statica] alfa=0.0 (ecc. -)



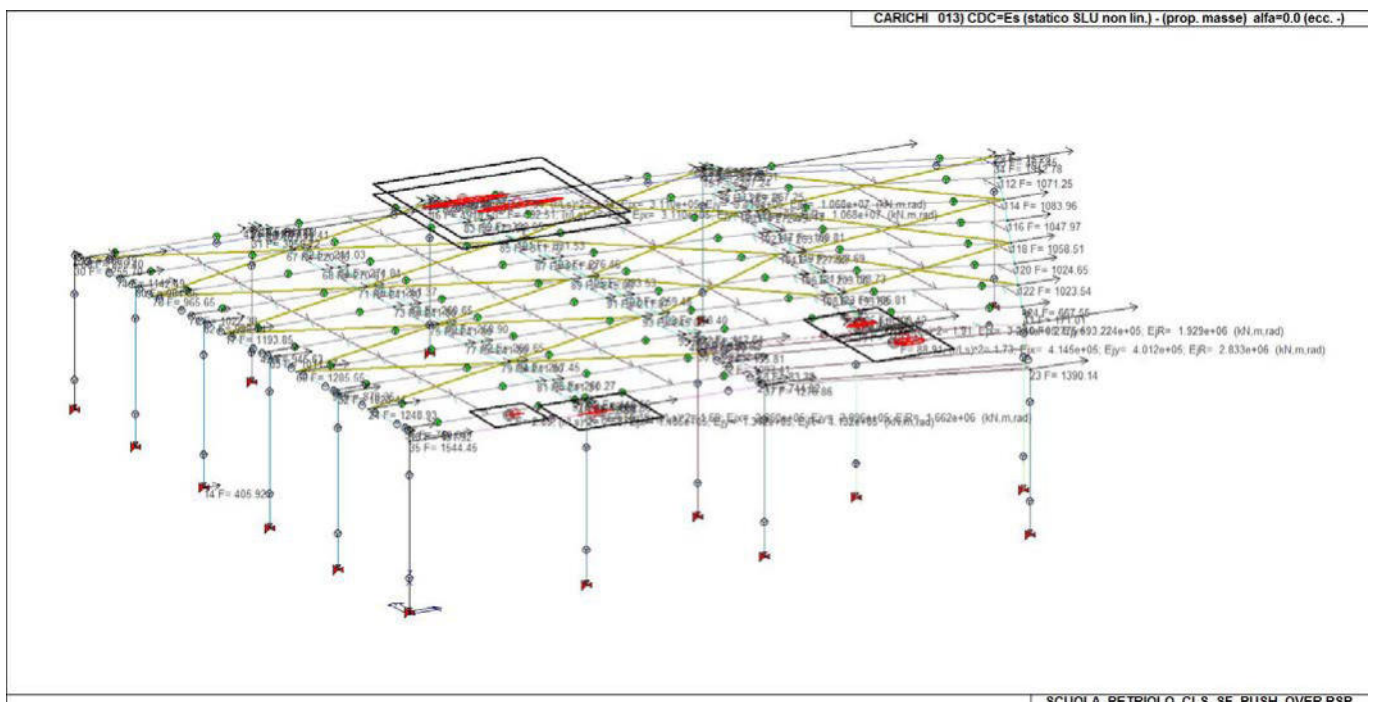
22_CDC_010_CDC=Es (statico SLU non lin.) - [prop. statica] alfa=90.00 (ecc. +)



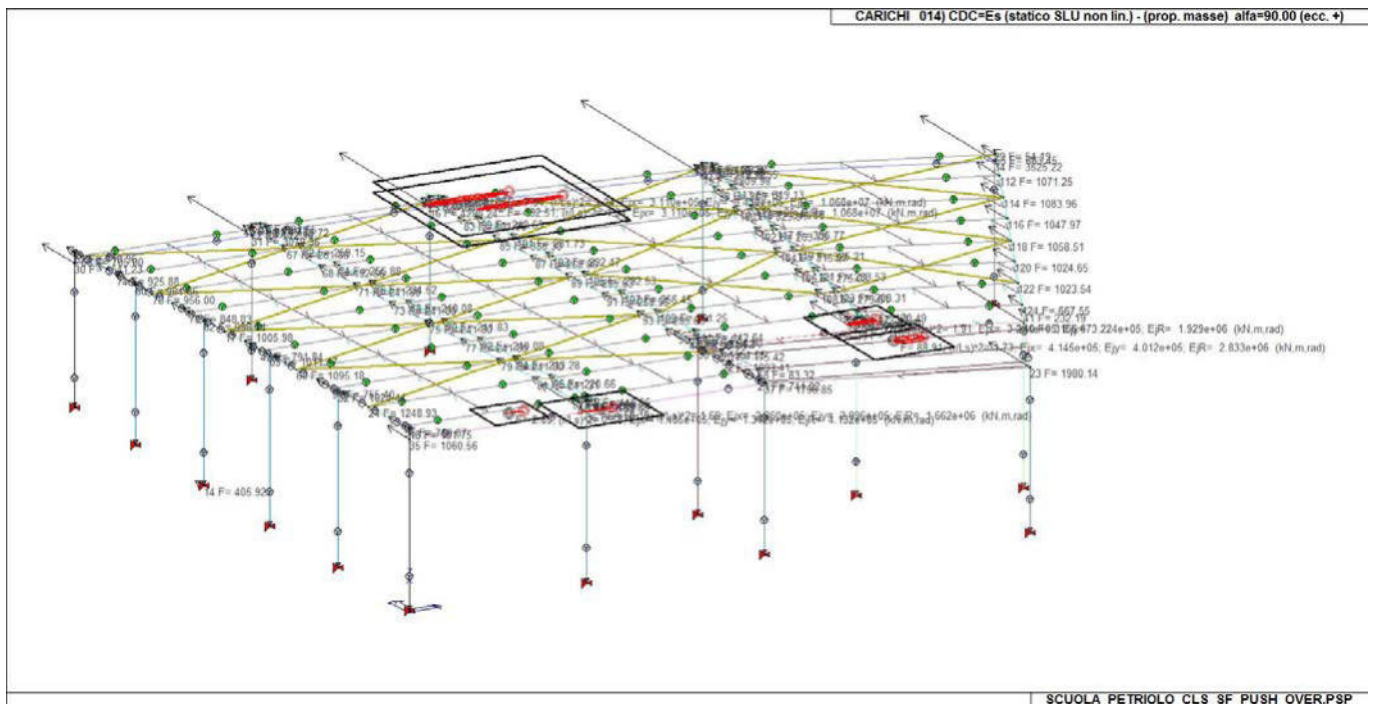
22_CDC_011_CDC=Es (statico SLU non lin.) - [prop. statica] alfa=90.00 (ecc. -)



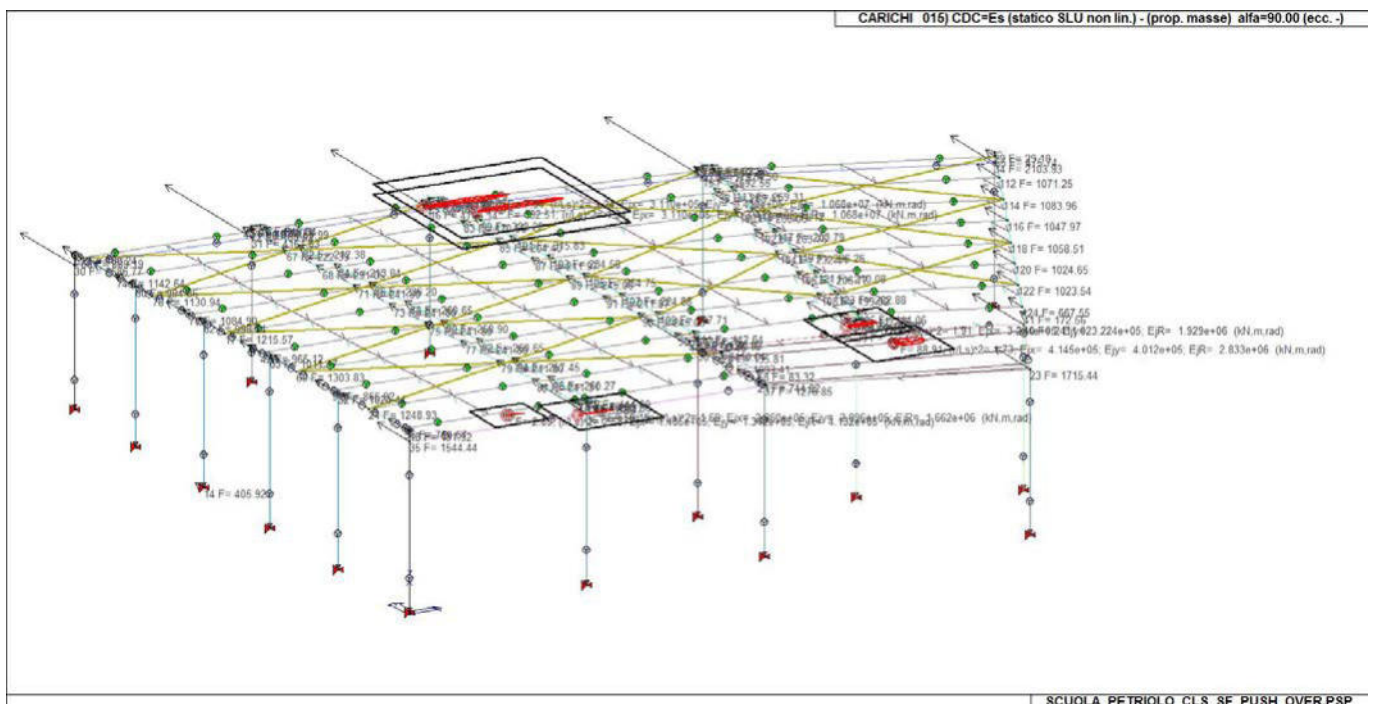
22_CDC_012_CDC=Es (statico SLU non lin.) - (prop. masse) alfa=0.0 (ecc. +)



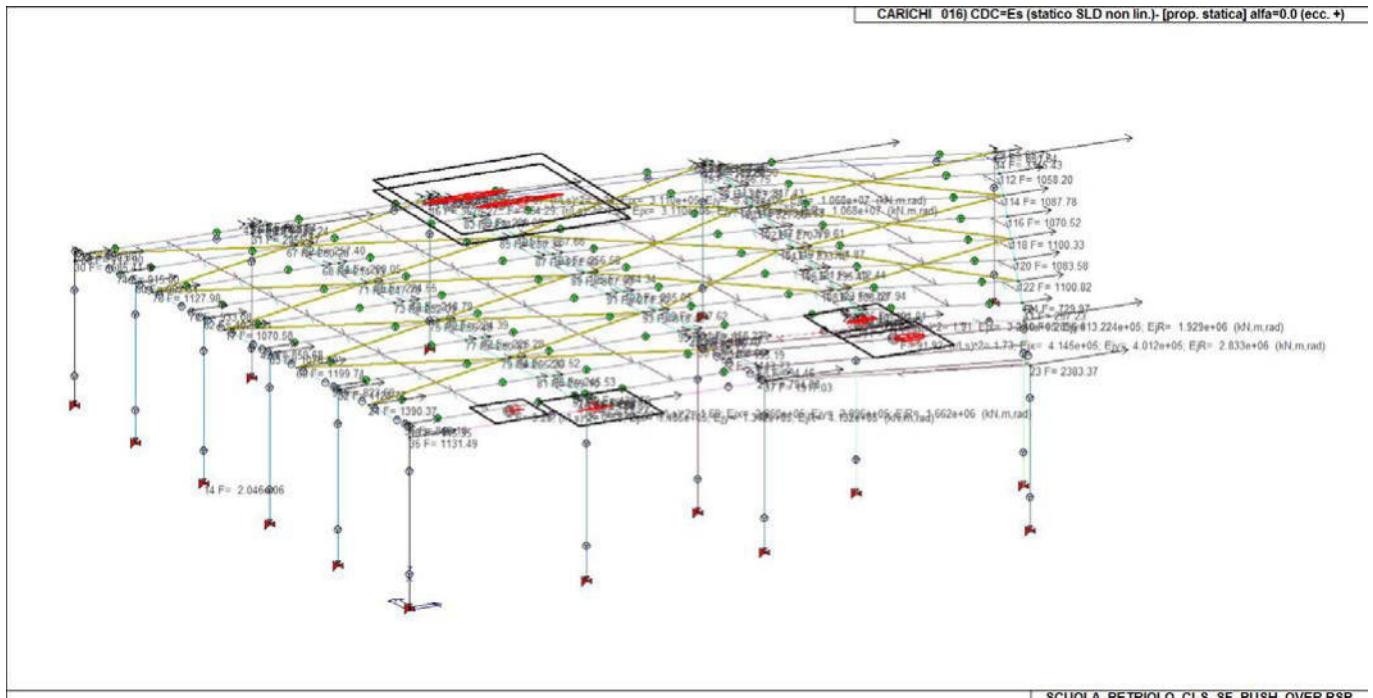
22_CDC_013_CDC=Es (statico SLU non lin.) - (prop. masse) alfa=0.0 (ecc. -)

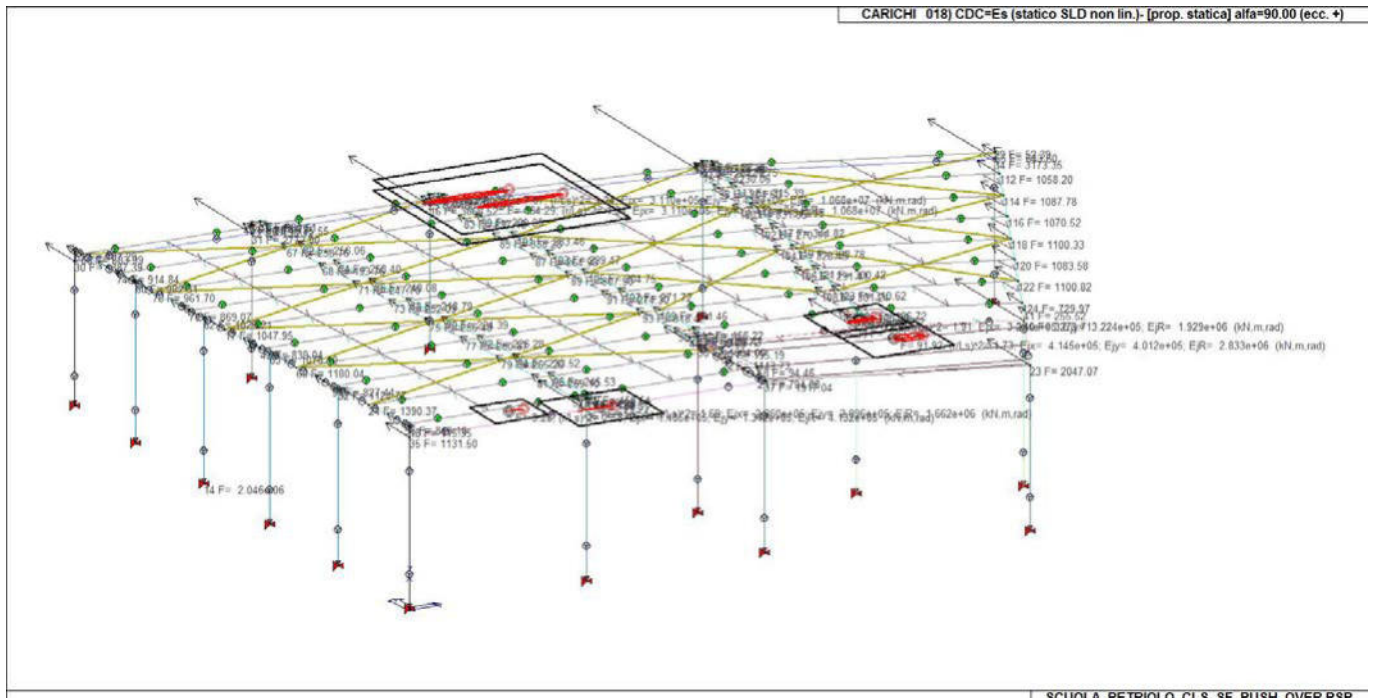


22_CDC_014_CDC=Es (statico SLU non lin.) - (prop. masse) alfa=90.00 (ecc. +)

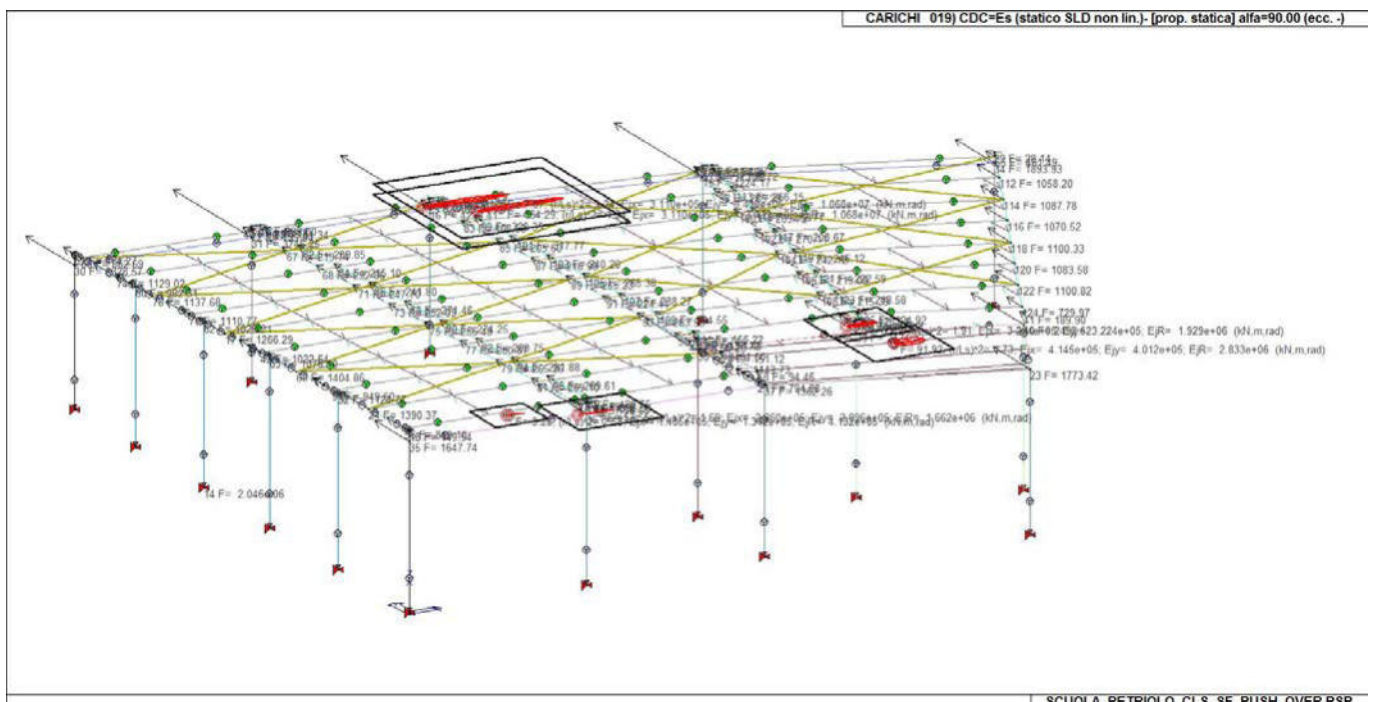


22_CDC_015_CDC=Es (statico SLU non lin.) - (prop. masse) alfa=90.00 (ecc. -)

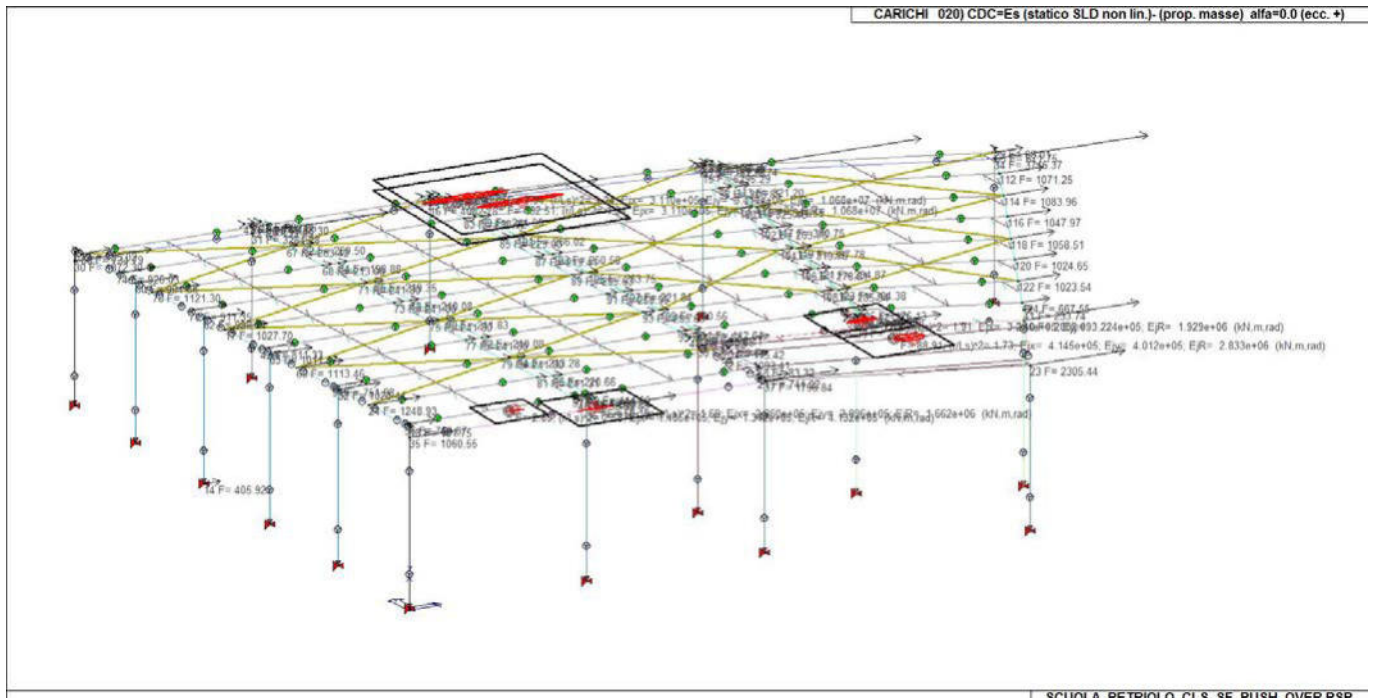




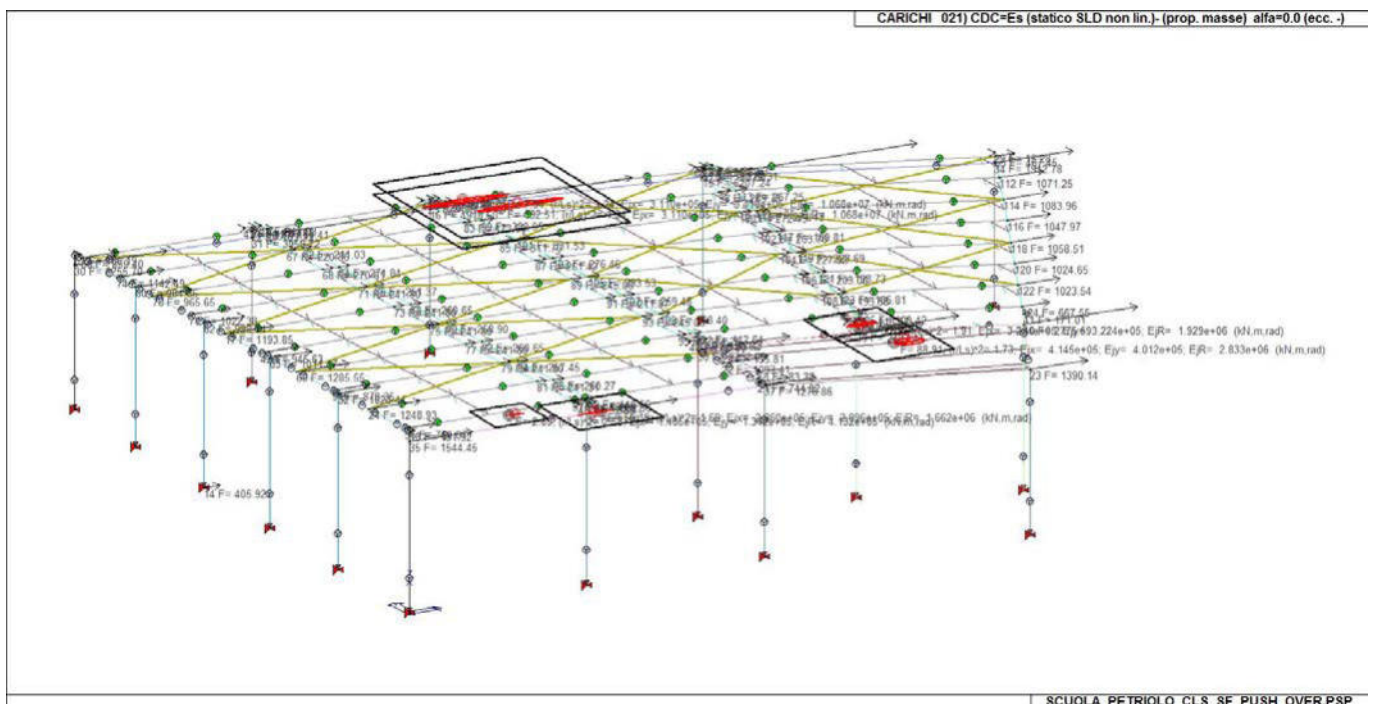
22_CDC_018_CDC=Es (statico SLD non lin.)- [prop. statica] alfa=90.00 (ecc. +)



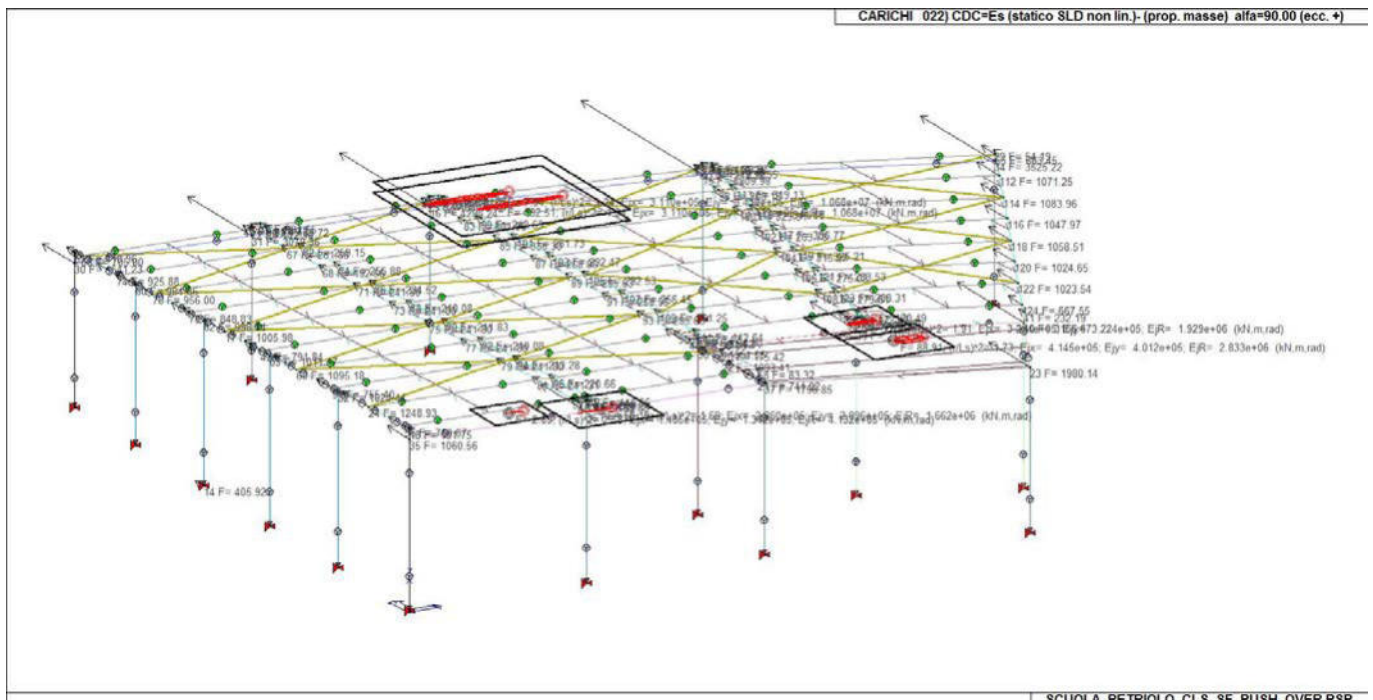
22_CDC_019_CDC=Es (statico SLD non lin.)- [prop. statica] alfa=90.00 (ecc. -)



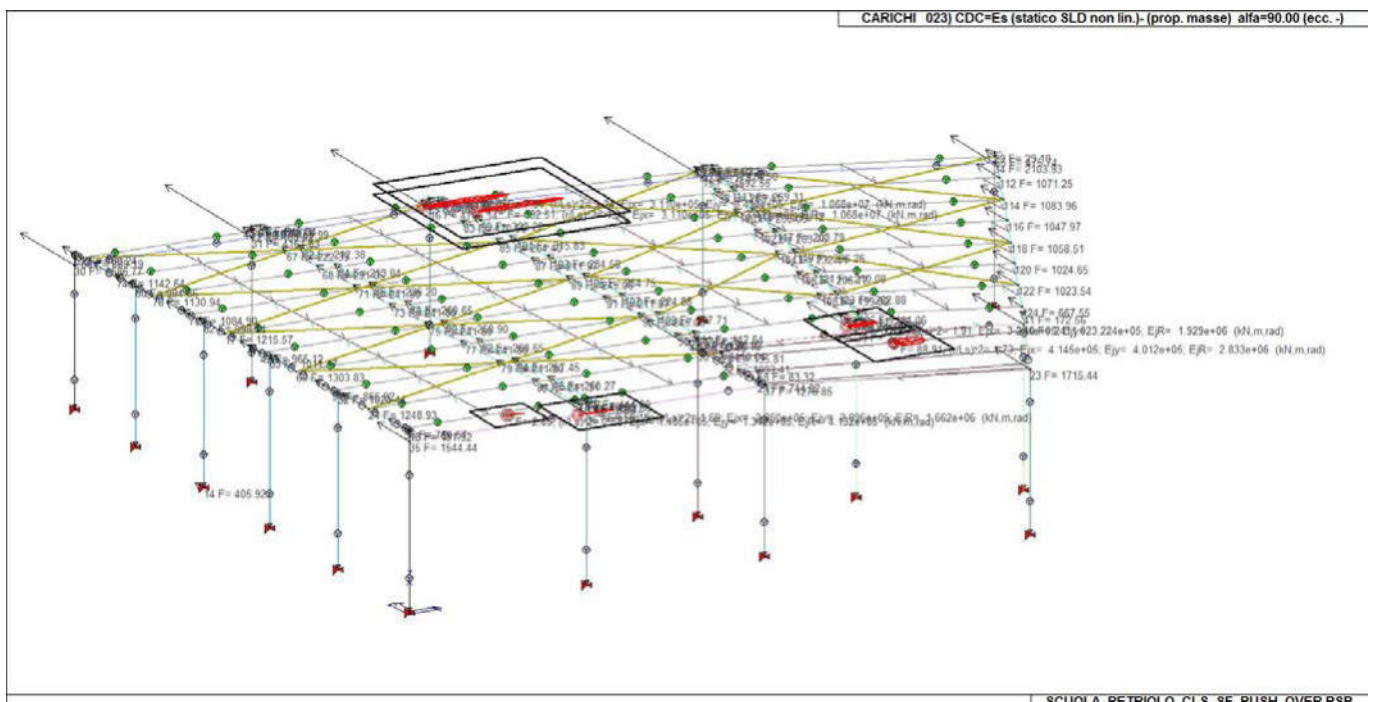
22_CDC_020_CDC=Es (statico SLD non lin.)- (prop. masse) alfa=0.0 (ecc. +)



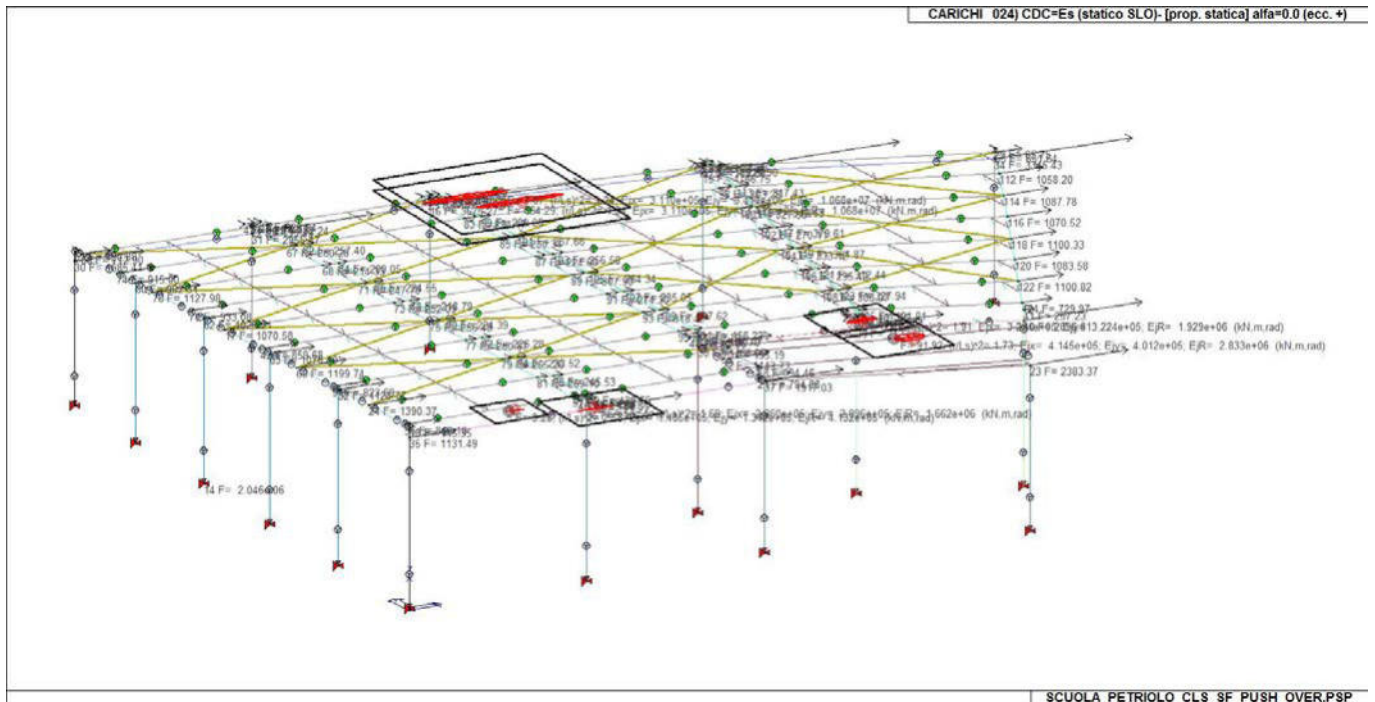
22_CDC_021_CDC=Es (statico SLD non lin.)- (prop. masse) alfa=0.0 (ecc. -)



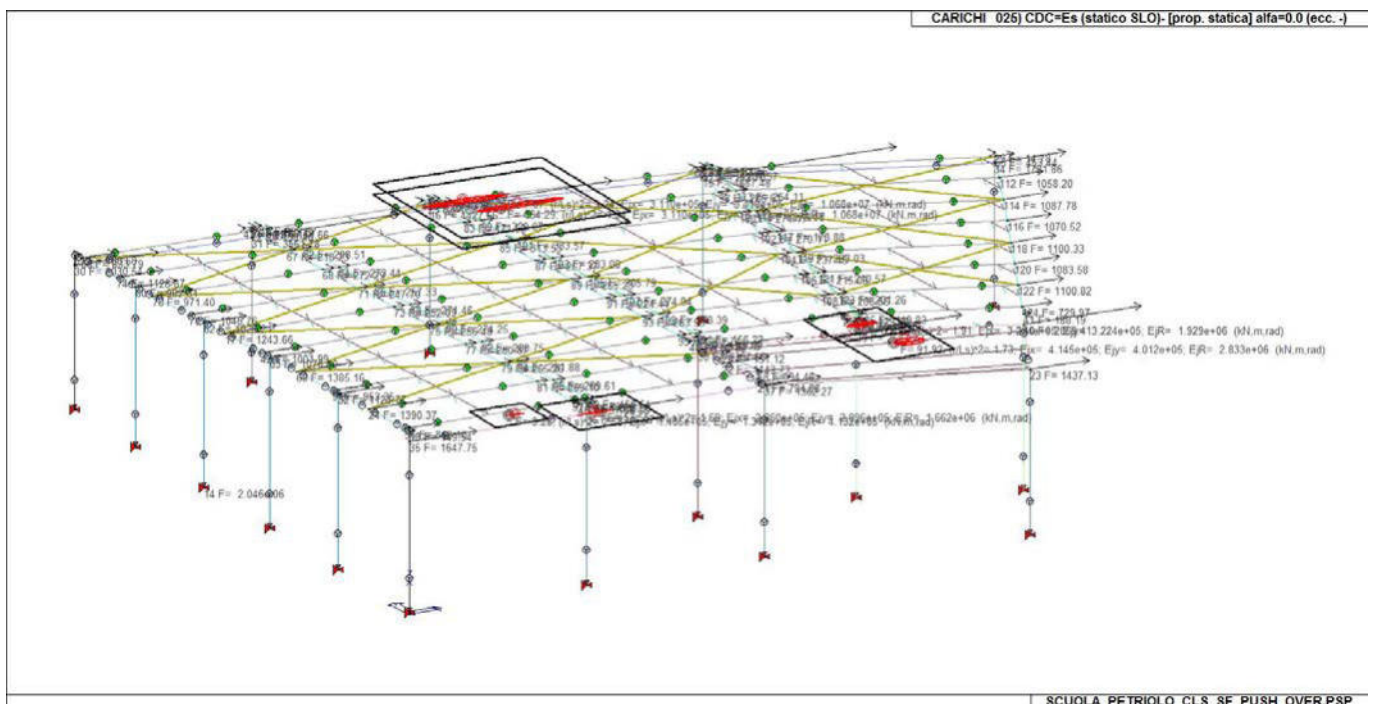
22_CDC_022_CDC=Es (statico SLD non lin.)- (prop. masse) alfa=90.00 (ecc. +)



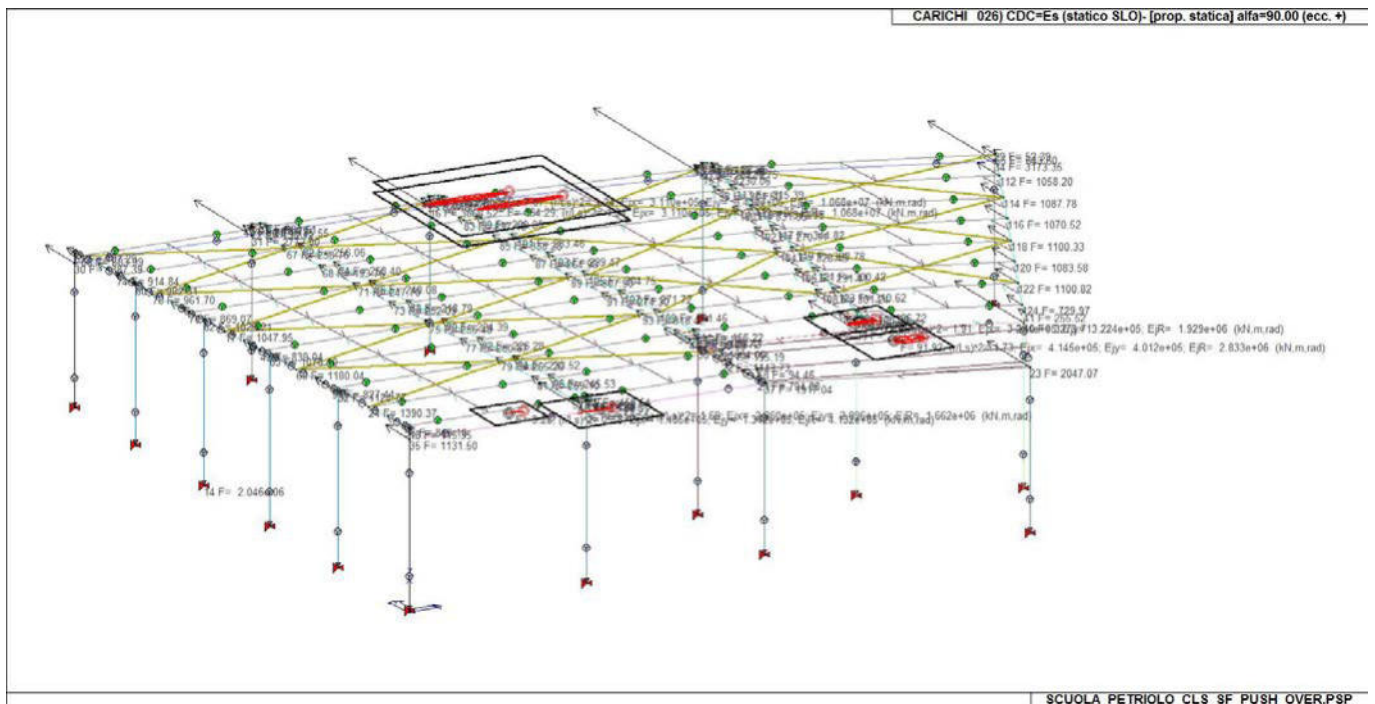
22_CDC_023_CDC=Es (statico SLD non lin.)- (prop. masse) alfa=90.00 (ecc. -)



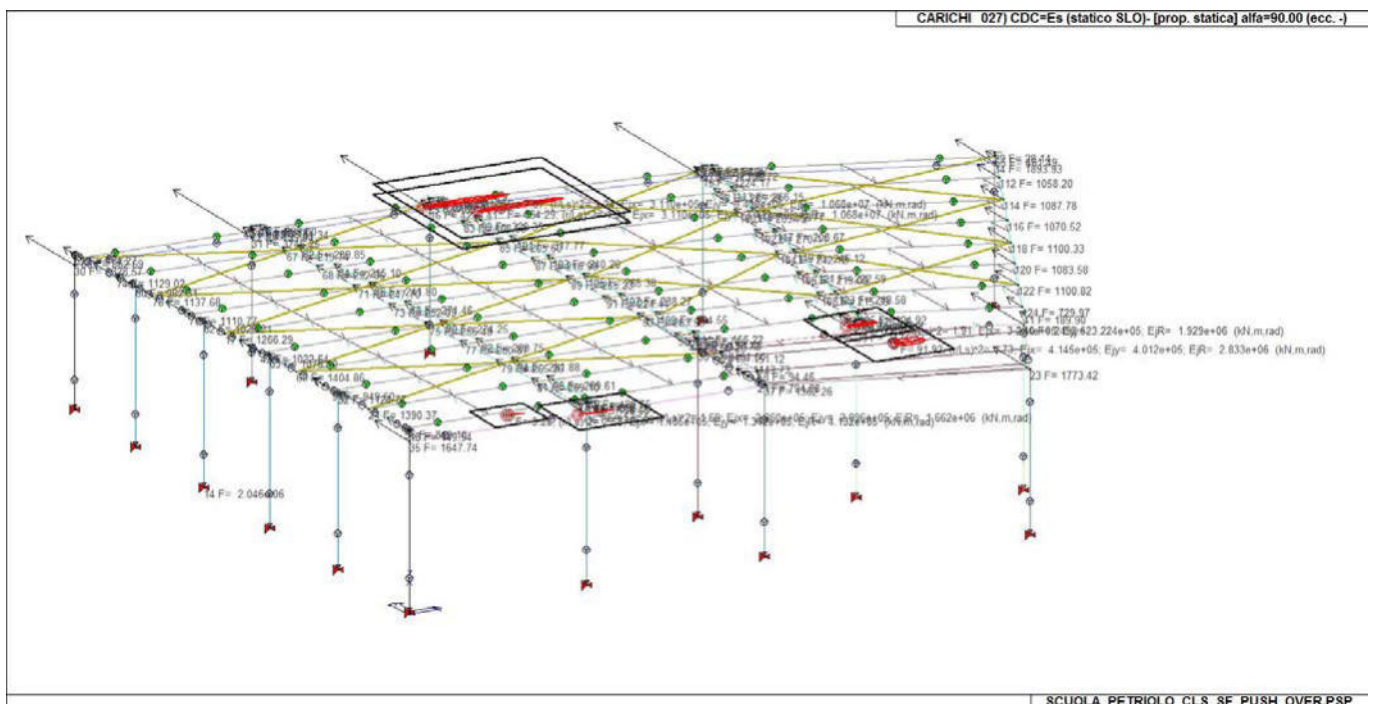
22_CDC_024_CDC=Es (statico SLO)- [prop. statica] alfa=0.0 (ecc. +)



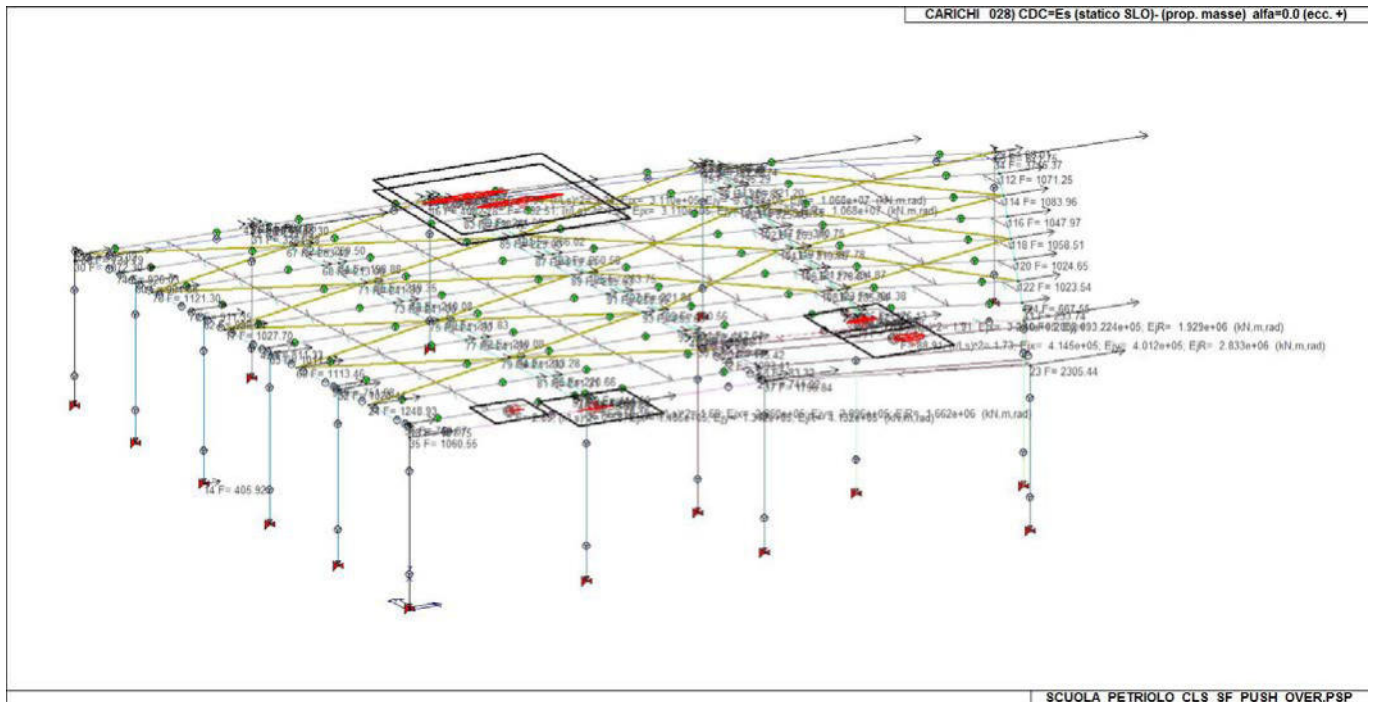
22_CDC_025_CDC=Es (statico SLO)- [prop. statica] alfa=0.0 (ecc. -)



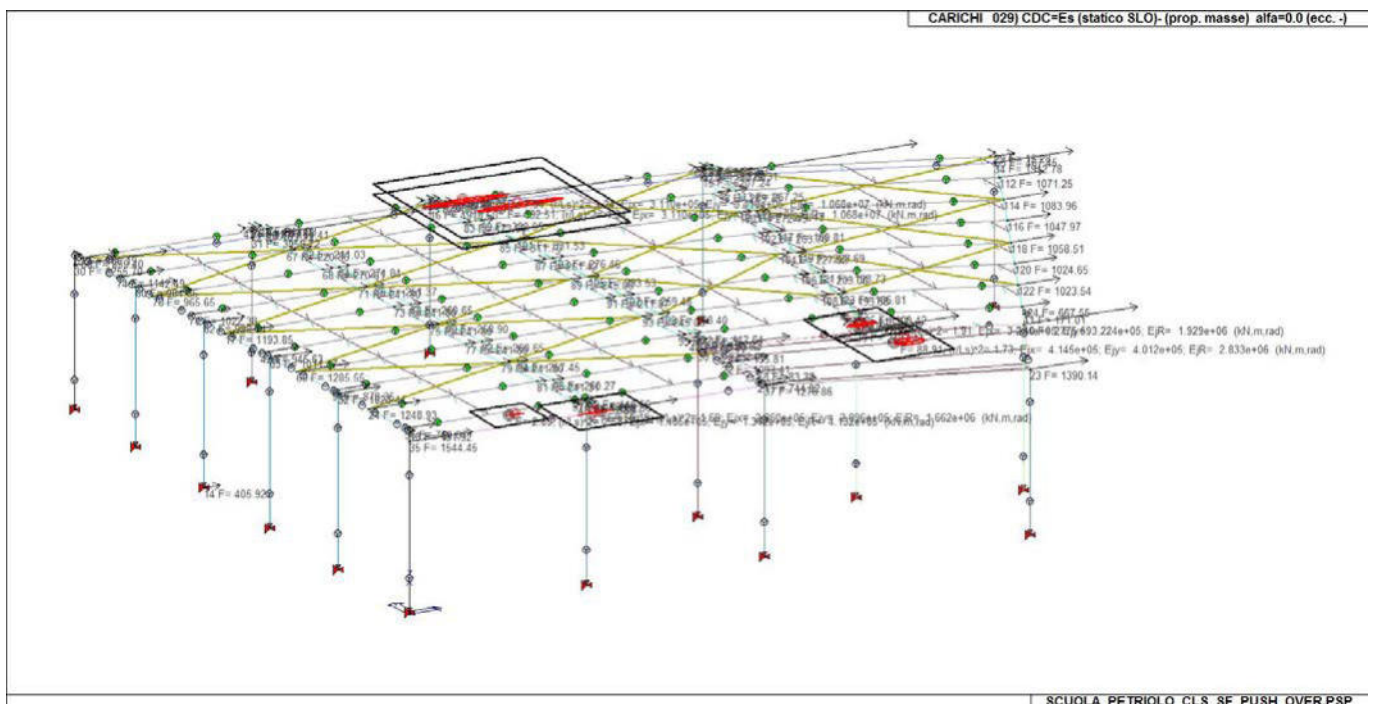
22_CDC_026_CDC=Es (statico SLO)- [prop. statica] alfa=90.00 (ecc. +)



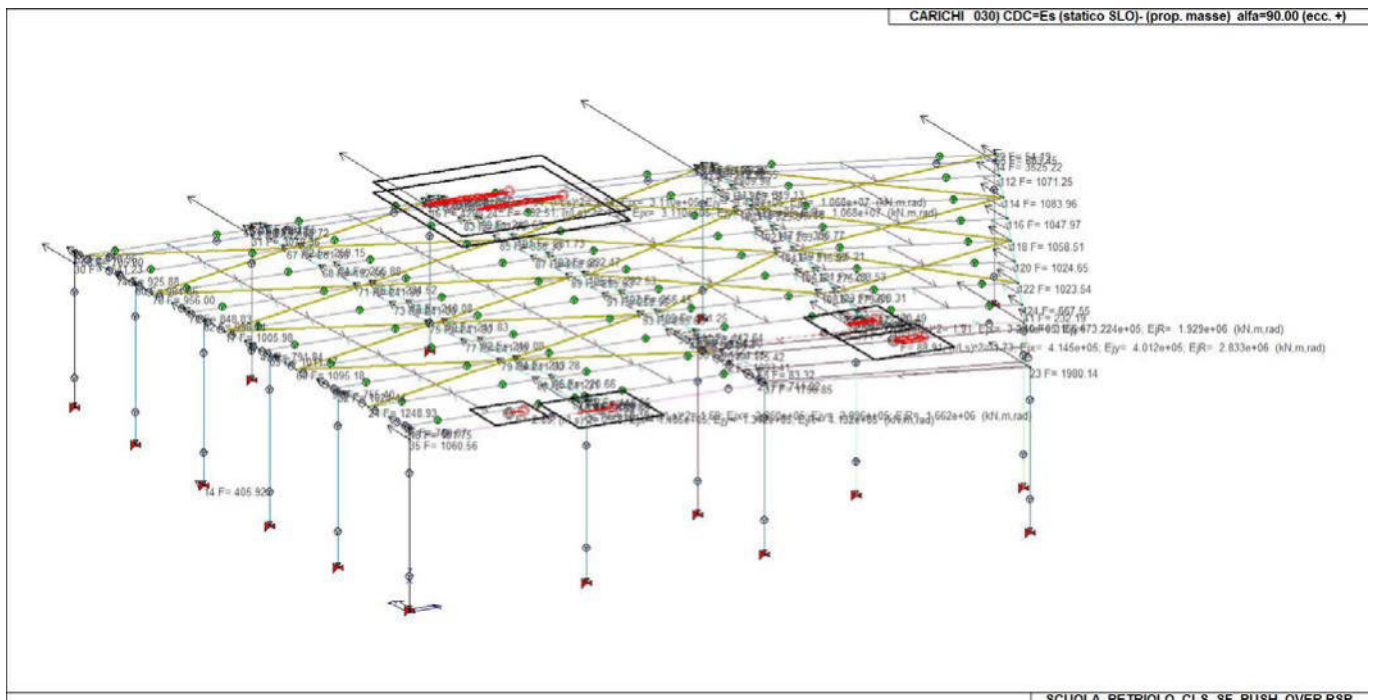
22_CDC_027_CDC=Es (statico SLO)- [prop. statica] alfa=90.00 (ecc. -)



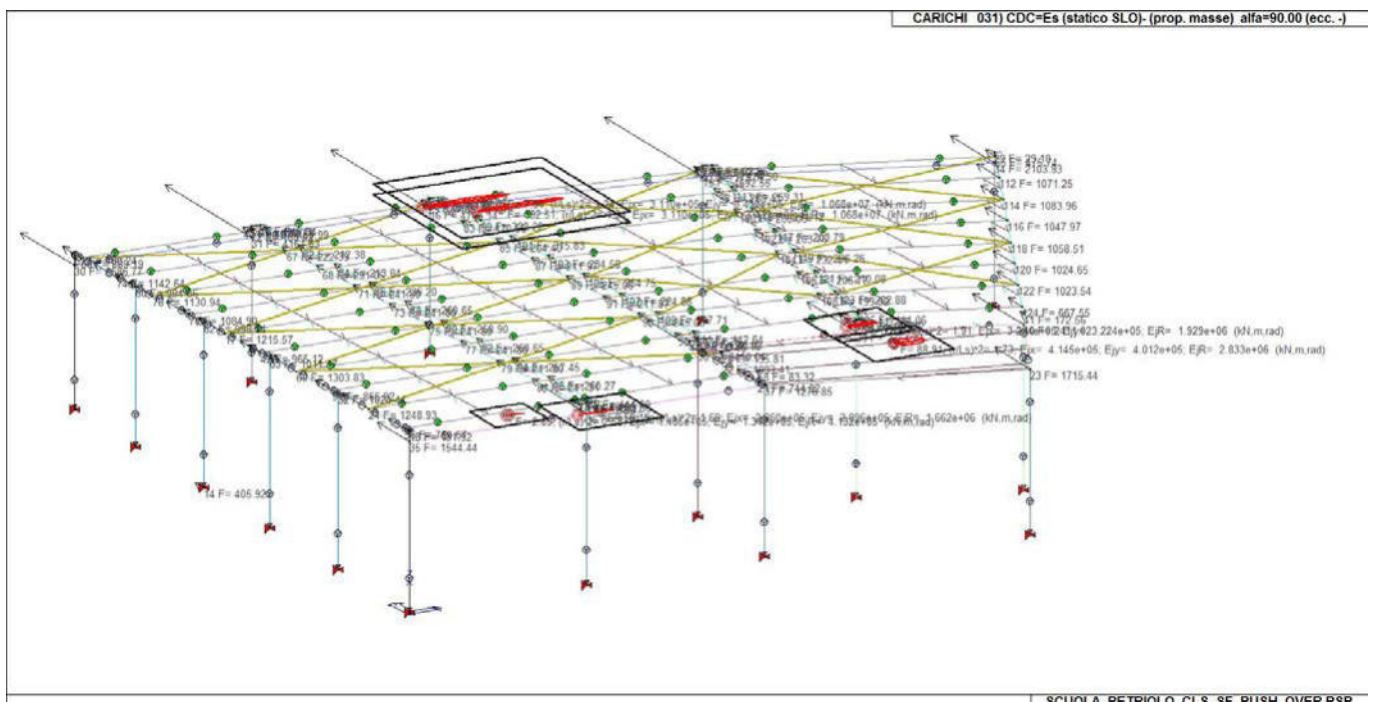
22_CDC_028_CDC=Es (statico SLO)- (prop. masse) alfa=0.0 (ecc. +)



22_CDC_029_CDC=Es (statico SLO)- (prop. masse) alfa=0.0 (ecc. -)



22_CDC_030_CDC=Es (statico SLO)- (prop. masse) alfa=90.00 (ecc. +)



22_CDC_031_CDC=Es (statico SLO)- (prop. masse) 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.I

Destinazione d'uso/azione	$\psi 0$	$\psi 1$	$\psi 2$
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli ≤ 30 kN)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli > 30 kN)	0,70	0,50	0,30
Categoria H Coperture	0,00	0,00	0,00
Vento	0,60	0,20	0,00
Neve a quota ≤ 1000 m	0,50	0,20	0,00
Neve a quota > 1000 m	0,70	0,50	0,20
Variazioni Termiche	0,60	0,50	0,00

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

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

NTC 2018 Tabella 2.6.I

		Coefficiente γ_f	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 computamente 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 1	

Cmb	Tipo	Sigla Id	effetto P-delta
2	SLU	Comb. SLU A1 2	
3	SLU	Comb. SLU A1 3	
4	SLU	Comb. SLU A1 4	
5	SL (pushover)	Comb. SLU A1 (SLV sism.) 5	
6	SL (pushover)	Comb. SLU A1 (SLV sism.) 6	
7	SL (pushover)	Comb. SLU A1 (SLV sism.) 7	
8	SL (pushover)	Comb. SLU A1 (SLV sism.) 8	
9	SL (pushover)	Comb. SLU A1 (SLV sism.) 9	
10	SL (pushover)	Comb. SLU A1 (SLV sism.) 10	
11	SL (pushover)	Comb. SLU A1 (SLV sism.) 11	
12	SL (pushover)	Comb. SLU A1 (SLV sism.) 12	
13	SL (pushover)	Comb. SLU A1 (SLV sism.) 13	
14	SL (pushover)	Comb. SLU A1 (SLV sism.) 14	
15	SL (pushover)	Comb. SLU A1 (SLV sism.) 15	
16	SL (pushover)	Comb. SLU A1 (SLV sism.) 16	
17	SL (pushover)	Comb. SLU A1 (SLV sism.) 17	
18	SL (pushover)	Comb. SLU A1 (SLV sism.) 18	
19	SL (pushover)	Comb. SLU A1 (SLV sism.) 19	
20	SL (pushover)	Comb. SLU A1 (SLV sism.) 20	
21	SL (pushover)	Comb. SLE (SLD Danno sism.) 21	
22	SL (pushover)	Comb. SLE (SLD Danno sism.) 22	
23	SL (pushover)	Comb. SLE (SLD Danno sism.) 23	
24	SL (pushover)	Comb. SLE (SLD Danno sism.) 24	
25	SL (pushover)	Comb. SLE (SLD Danno sism.) 25	
26	SL (pushover)	Comb. SLE (SLD Danno sism.) 26	
27	SL (pushover)	Comb. SLE (SLD Danno sism.) 27	
28	SL (pushover)	Comb. SLE (SLD Danno sism.) 28	
29	SL (pushover)	Comb. SLE (SLD Danno sism.) 29	
30	SL (pushover)	Comb. SLE (SLD Danno sism.) 30	
31	SL (pushover)	Comb. SLE (SLD Danno sism.) 31	
32	SL (pushover)	Comb. SLE (SLD Danno sism.) 32	
33	SL (pushover)	Comb. SLE (SLD Danno sism.) 33	
34	SL (pushover)	Comb. SLE (SLD Danno sism.) 34	
35	SL (pushover)	Comb. SLE (SLD Danno sism.) 35	
36	SL (pushover)	Comb. SLE (SLD Danno sism.) 36	
37	SL (pushover)	Comb. SLE (SLO Operativo sism.) 37	
38	SL (pushover)	Comb. SLE (SLO Operativo sism.) 38	
39	SL (pushover)	Comb. SLE (SLO Operativo sism.) 39	
40	SL (pushover)	Comb. SLE (SLO Operativo sism.) 40	
41	SL (pushover)	Comb. SLE (SLO Operativo sism.) 41	
42	SL (pushover)	Comb. SLE (SLO Operativo sism.) 42	
43	SL (pushover)	Comb. SLE (SLO Operativo sism.) 43	
44	SL (pushover)	Comb. SLE (SLO Operativo sism.) 44	
45	SL (pushover)	Comb. SLE (SLO Operativo sism.) 45	
46	SL (pushover)	Comb. SLE (SLO Operativo sism.) 46	
47	SL (pushover)	Comb. SLE (SLO Operativo sism.) 47	
48	SL (pushover)	Comb. SLE (SLO Operativo sism.) 48	
49	SL (pushover)	Comb. SLE (SLO Operativo sism.) 49	
50	SL (pushover)	Comb. SLE (SLO Operativo sism.) 50	
51	SL (pushover)	Comb. SLE (SLO Operativo sism.) 51	
52	SL (pushover)	Comb. SLE (SLO Operativo sism.) 52	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.30	1.50	1.50	1.50	1.50	0.75	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
2	1.00	1.00	0.80	0.80	1.50	0.80	0.75	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
3	1.30	1.30	1.50	1.50	0.75	1.50	1.50	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
4	1.00	1.00	0.80	0.80	0.75	0.80	1.50	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
5	1.00	1.00	1.00	1.00	0.0	1.00	0.0	-1.00	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	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0											
6	1.00	1.00	1.00	1.00	0.0	1.00	0.0	1.00	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	0.0	0.0	0.0	0.0	0.0	0.0

[illegible]

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):

ag: accelerazione orizzontale massima del terreno;

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

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

Parametri della struttura					
Classe d'uso	Vita V_n [anni]	Coeff. Uso	Periodo V_r [anni]	Tipo di suolo	Categoria topografica
III	50.0	1.5	75.0	A	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)

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

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

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

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

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

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	13.466	43.221	
22754	13.422	43.185	5.344
22755	13.490	43.185	4.436
22533	13.490	43.235	2.483
22532	13.421	43.235	3.951

SL	P_{ver}	T_r	ag	Fo	T*c
		Anni	g		sec
SLO	92.0	30.0	0.055	2.450	0.270
SLD	92.0	30.0	0.055	2.450	0.270
SLV	46.0	122.0	0.101	2.420	0.320
SLC	29.0	219.0	0.130	2.420	0.320

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.055	1.200	2.450	0.772	0.090	0.270	1.818
SLD	0.055	1.200	2.450	0.772	0.090	0.270	1.818
SLV	0.101	1.200	2.420	1.041	0.107	0.320	2.006
SLC	0.130	1.200	2.420	1.176	0.107	0.320	2.118

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	Angolo di ingresso dell'azione sismica orizzontale
Fattore di importanza	Fattore di importanza dell'edificio, in base alla categoria di appartenenza
Zona sismica	Zona sismica
Accelerazione ag	Accelerazione orizzontale massima sul suolo
Categoria suolo	Categoria di profilo stratigrafico del suolo di fondazione
Fattore q	Fattore di struttura/di comportamento. Dipendente dalla tipologia strutturale
Fattore di sito S	Fattore dipendente dalla stratigrafia e dal profilo topografico
Classe di duttilità CD	Classe di duttilità della struttura – "A" duttilità alta, "B" duttilità bassa
Fattore riduz. SLD	Fattore di riduzione dello spettro elastico per lo stato limite di danno
Periodo proprio T1	Periodo proprio di vibrazione della struttura
Coefficiente Lambda	Coefficiente dipendente dal periodo proprio T1 e dal numero di piani della struttura
Ordinata spettro Sd(T1)	Valore delle ordinate dello spettro di progetto per lo stato limite ultimo, componente orizzontale (verticale Svd)
Ordinata spettro Se(T1)	Valore delle ordinate dello spettro elastico ridotta del fattore SLD per lo stato limite di danno, componente orizzontale (verticale Sve)
Ordinata spettro S (Tb-Tc)	Valore dell'ordinata dello spettro in uso nel tratto costante
numero di modi considerati	Numero di modi di vibrare della struttura considerati nell'analisi dinamica

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

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

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

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

Per gli edifici sismicamente isolati si riportano di seguito le verifiche condotte sui dispositivi di isolamento. Le verifiche sono effettuate secondo la circolare 619/2009 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
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) $\text{Gam s} < \text{Gam} * (\text{caratteristica dell' elastomero})$
- 5) $\text{Gam s} < 2$
- 6) $V < 0.5 V_{cr}$

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

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

Calcolo dei fattori di comportamento secondo il D.M. 17/01/2018

La costruzione, esistente, è caratterizzata da non regolarità sia in pianta sia in altezza ed è progettata in classe di duttilità media (CD"B").

I valori dei fattori nelle direzioni x e y sono stati impostati manualmente dal progettista.

Fattori di comportamento utilizzati

	Dissipativi	Verifiche fragili
q SLU x	1.000	1.000
q SLU y	1.000	1.000
q SLU z	1.000	1.000

CDC	Tipo	Sigla Id	Note
8	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=0.0 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.295 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: positiva
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	0.0	-2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	0.0	-2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	0.0	-6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	0.0	-1.62	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	0.0	-1.85	0.0	0.0	0.0	0.0	0.0

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
323.06	544.70	1.114e+04	505.71	541.76	443.78	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	0.0	-5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	0.0	-2.00	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	0.0	-2.17	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	0.0	-18.13	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	0.0	-2.41	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	0.0	-2.56	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	0.0	-2.61	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	0.0	-5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	0.0	-10.74	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	0.0	-2.84	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	0.0	-10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	0.0	-10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
9	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.295 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	0.0	2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	0.0	0.05	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	0.0	2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	0.0	6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	0.0	1.62	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	0.0	1.85	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	0.0	5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	0.0	2.00	0.0	0.0	0.0	0.0	0.0

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
317.72	498.69	2.193e+04	470.78	530.65	583.68	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	0.0	2.17	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	0.0	18.13	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	0.0	2.41	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	0.0	2.56	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	0.0	0.03	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	0.0	2.61	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	0.0	5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	0.0	10.74	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	0.0	2.84	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	0.0	10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	0.0	10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
10	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.295 g
			angolo di ingresso: 90.00
			eccentricità aggiuntiva: positiva
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
11	Esk	CDC=Es (statico SLU non lin.) - [prop. statica] alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.295 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	-18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	-1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	-16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	-30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	-51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	-53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	-35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	-54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	-55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	-29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	-57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	-41.98	0.0	0.0	0.0	0.0	0.0	0.0

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
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	-24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	-85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	-25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	-86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	-86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
12	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=0.0 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.295 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: positiva
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	0.0	-2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	0.0	-2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	0.0	-6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	0.0	-1.62	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	0.0	-1.85	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	0.0	-5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	0.0	-2.00	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	0.0	-2.17	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	0.0	-18.13	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	0.0	-2.41	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	0.0	-2.56	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	0.0	-2.61	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	0.0	-5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	0.0	-10.74	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	0.0	-2.84	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	0.0	-10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	0.0	-10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
13	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.295 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	0.0	2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	0.0	0.05	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	0.0	2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	0.0	6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	0.0	1.62	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	0.0	1.85	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	0.0	5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	0.0	2.00	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	0.0	2.17	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	0.0	18.13	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	0.0	2.41	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	0.0	2.56	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	0.0	0.03	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	0.0	2.61	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	0.0	5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	0.0	10.74	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	0.0	2.84	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	0.0	10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	0.0	10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
14	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.295 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
15	Esk	CDC=Es (statico SLU non lin.) - (prop. masse) alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.295 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	-18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	-1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	-16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	-30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	-51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	-53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	-35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	-54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	-55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	-29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	-57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	-41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	-24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	-85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	-25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	-86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	-86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
16	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=0.0 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:0.0

CDC	Tipo	Sigla Id	Note
			eccentricità aggiuntiva: positiva
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	0.0	-2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	0.0	-2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	0.0	-6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	0.0	-1.62	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	0.0	-1.85	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	0.0	-5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	0.0	-2.00	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	0.0	-2.17	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	0.0	-18.13	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	0.0	-2.41	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	0.0	-2.56	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	0.0	-2.61	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	0.0	-5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	0.0	-10.74	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	0.0	-2.84	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	0.0	-10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	0.0	-10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
17	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	0.0	2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	0.0	0.05	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	0.0	2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	0.0	6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	0.0	1.62	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	0.0	1.85	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	0.0	5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	0.0	2.00	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	0.0	2.17	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	0.0	18.13	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	0.0	2.41	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	0.0	2.56	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	0.0	0.03	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	0.0	2.61	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	0.0	5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	0.0	10.74	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	0.0	2.84	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	0.0	10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	0.0	10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
18	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	1.60	0.0	0.0	0.0	0.0	0.0	0.0

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
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
19	Esk	CDC=Es (statico SLD non lin.)- [prop. statica] alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	-18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	-1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	-16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	-30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	-51.60	0.0	0.0	0.0	0.0	0.0	0.0

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
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	-53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	-35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	-54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	-55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	-29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	-57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	-41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	-24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	-85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	-25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	-86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	-86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
20	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=0.0 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	0.0	-2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	0.0	-2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	0.0	-6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	0.0	-1.62	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	0.0	-1.85	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	0.0	-5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	0.0	-2.00	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	0.0	-2.17	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	0.0	-18.13	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	0.0	-2.41	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	0.0	-2.56	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	0.0	-2.61	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	0.0	-5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	0.0	-10.74	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	0.0	-2.84	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	0.0	-10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	0.0	-10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
21	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	0.0	2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	0.0	0.05	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	0.0	2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	0.0	6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	0.0	1.62	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	0.0	1.85	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	0.0	5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	0.0	2.00	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	0.0	2.17	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	0.0	18.13	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	0.0	2.41	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	0.0	2.56	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	0.0	0.03	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	0.0	2.61	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	0.0	5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	0.0	10.74	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	0.0	2.84	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	0.0	10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	0.0	10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
22	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
23	Esk	CDC=Es (statico SLD non lin.)- (prop. masse) alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	-18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	-1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	-16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	-30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	-51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	-53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	-35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	-54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	-55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	-29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	-57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	-41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	-24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	-85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	-25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	-86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	-86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
24	Esk	CDC=Es (statico SLO)- [prop. statica] alfa=0.0 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	0.0	-2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	0.0	-0.05	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	0.0	-2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	0.0	-6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	0.0	-1.62	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	0.0	-1.85	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	0.0	-5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	0.0	-2.00	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	0.0	-2.17	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	0.0	-18.13	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	0.0	-2.41	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	0.0	-2.56	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	0.0	-2.61	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	0.0	-5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	0.0	-10.74	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	0.0	-2.84	0.0	0.0	0.0	0.0	0.0

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
290.00	767.46	5.334e+04	793.76	760.61	1270.18	0.0	-10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	0.0	-10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
25	Esk	CDC=Es (statico SLO)- [prop. statica] alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	0.0	2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	0.0	0.05	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	0.0	2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	0.0	6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	0.0	1.62	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	0.0	1.85	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	0.0	5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	0.0	2.00	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	0.0	2.17	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	0.0	18.13	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	0.0	2.41	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	0.0	2.56	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	0.0	0.03	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	0.0	2.61	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	0.0	5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	0.0	10.74	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	0.0	2.84	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	0.0	10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	0.0	10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
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CDC	Tipo	Sigla Id	Note
26	Esk	CDC=Es (statico SLO)- [prop. statica] alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	1.10.40	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1148.12	24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
27	Esk	CDC=Es (statico SLO)- [prop. statica] alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			forze: come statica lineare

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			
340.05	94.46	94.46	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	327.88	422.34	289.25	210.87	-3.36e-03	-18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	849.10	1271.44	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	288.91	1560.35	255.60	353.72	25.43	-1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	269.10	1829.45	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1390.37	3219.82	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	440.72	3660.54	396.09	502.45	163.98	-16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	640.52	4301.07	582.04	1007.17	206.14	-30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1124.77	5425.84	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	265.26	5691.10	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1203.06	6894.16	1098.34	265.70	292.58	-51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	156.22	7050.38	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	483.62	7534.00	441.70	520.06	303.88	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	729.97	8263.97	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	260.87	8524.84	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	2073.37	1.060e+04	1924.35	353.75	432.53	-53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	544.70	1.114e+04	505.71	541.76	443.78	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1100.82	1.224e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	794.88	1.304e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5355.09	1.839e+04	5019.35	370.27	-5.91e-03	-35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1076.10	1.947e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	256.48	1.973e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1702.59	2.143e+04	1606.85	434.54	570.14	-54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	498.69	2.193e+04	470.78	530.65	583.68	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1083.58	2.301e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1143.73	2.415e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	252.09	2.441e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	2019.92	2.643e+04	1938.99	417.80	710.15	-55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	526.69	2.695e+04	505.71	541.77	723.58	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1100.33	2.805e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	9191.77	3.725e+04	8891.23	1066.90	137.15	-29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	1029.21	3.827e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	247.70	3.852e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	270.11	3.879e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	2018.42	4.081e+04	1971.45	380.88	856.02	-57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1070.52	4.188e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1153.12	4.303e+04	1146.06	873.66	977.24	-41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1558.38	4.459e+04	1549.18	176.86	1002.99	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1087.78	4.568e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	982.31	4.666e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	859.79	4.752e+04	869.94	1036.42	1108.12	-24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1727.14	4.925e+04	1747.98	189.96	1143.28	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1058.20	5.031e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	191.32	5.050e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	1966.01	5.247e+04	2026.46	706.08	1218.57	-85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	104.19	5.257e+04	107.74	1056.99	1272.78	-25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	767.46	5.334e+04	793.76	760.61	1270.18	-86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.643e+04	6.977e+04	1.825e+04	863.07	1260.98	-86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	2.05e-06	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
28	Esk	CDC=Es (statico SLO)- (prop. masse) alfa=0.0 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	0.0	-2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	0.0	-0.05	0.0	0.0	0.0	0.0	0.0

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
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	0.0	-2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	0.0	-6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	0.0	-1.62	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	0.0	-1.85	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	0.0	-5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	0.0	-2.00	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	0.0	-2.17	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	0.0	-2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	0.0	-18.13	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	0.0	-2.41	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	0.0	-2.56	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	0.0	-0.03	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	0.0	-2.61	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	0.0	-5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	0.0	-10.74	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	0.0	-2.84	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	0.0	-10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	0.0	-10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
29	Esk	CDC=Es (statico SLO)- (prop. masse) alfa=0.0 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	0.0	2.95e-04	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	0.0	0.05	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	0.0	2.50e-04	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	0.0	6.37	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	0.0	1.62	0.0	0.0	0.0	0.0	0.0

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
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	0.0	1.85	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	0.0	5.64e-04	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	0.0	2.00	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	0.0	2.17	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	0.0	2.57e-04	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	0.0	18.13	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	0.0	2.41	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	0.0	2.56	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	0.0	0.03	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	0.0	2.61	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	0.0	5.95e-04	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	0.0	10.74	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	0.0	2.84	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	0.0	10.91	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	0.0	10.91	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
30	Esk	CDC=Es (statico SLO)- (prop. masse) alfa=90.00 (ecc. +)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

CDC	Tipo	Sigla Id	Note
31	Esk	CDC=Es (statico SLO)- (prop. masse) alfa=90.00 (ecc. -)	
			verifica esistenti: fattore FC 1.000
			categoria suolo: A
			fattore di sito S = 1.200
			ordinata spettro (tratto Tb-Tc) = 0.160 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			forze: proporzionali alla massa

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			
340.05	83.32	83.32	83.32	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
340.00	289.25	372.56	289.25	210.87	-3.36e-03	-18.49	0.0	198.98	-3.84e-03	2.582	0.068	2.7632e-06
339.27	750.67	1123.23	750.67	0.03	19.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0
339.05	255.60	1378.83	255.60	353.72	25.43	-1.60	0.0	0.0	0.0	0.0	0.0	0.0
334.48	241.31	1620.14	241.31	337.75	164.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.90	1248.93	2869.07	1248.93	0.03	159.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
333.74	396.09	3265.16	396.09	502.45	163.98	-16.89	0.0	0.0	0.0	0.0	0.0	0.0
330.08	582.04	3847.20	582.04	1007.17	206.14	-30.00	0.0	1002.32	207.75	1.908	0.020	0.007
329.31	1024.44	4871.64	1024.44	4.54e-03	280.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
329.04	241.80	5113.44	241.80	337.76	303.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.54	1098.34	6211.78	1098.34	265.71	292.58	-51.60	0.0	0.0	0.0	0.0	0.0	0.0
328.48	142.64	6354.42	142.64	723.50	301.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0
328.40	441.70	6796.13	441.70	520.06	303.88	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
327.98	667.55	7463.68	667.55	1311.40	176.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.59	241.80	7705.48	241.80	337.76	443.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323.18	1924.35	9629.83	1924.35	353.78	432.53	-53.06	0.0	0.0	0.0	0.0	0.0	0.0
323.06	505.71	1.014e+04	505.71	541.76	443.78	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
322.59	1023.54	1.116e+04	1023.54	1368.85	303.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.05	744.92	1.190e+04	744.92	707.50	24.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0
320.00	5019.35	1.692e+04	5019.35	370.27	-5.91e-03	-35.37	0.0	382.05	-6.85e-03	1.689	0.042	3.5632e-06
319.20	1011.17	1.793e+04	1011.17	8.85e-03	545.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
318.15	241.80	1.818e+04	241.80	337.76	583.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0
317.81	1606.85	1.978e+04	1606.85	434.55	570.14	-54.51	0.0	0.0	0.0	0.0	0.0	0.0
317.72	470.78	2.025e+04	470.78	530.65	583.68	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
317.19	1024.65	2.128e+04	1024.65	1426.30	431.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
313.74	1093.41	2.237e+04	1093.41	707.50	163.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.70	241.80	2.261e+04	241.80	337.76	723.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0
312.45	1938.99	2.455e+04	1938.99	417.79	710.15	-55.96	0.0	0.0	0.0	0.0	0.0	0.0
312.38	505.71	2.506e+04	505.71	541.77	723.58	-16.09	0.0	0.0	0.0	0.0	0.0	0.0
311.79	1058.51	2.612e+04	1058.51	1483.75	558.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0
310.08	8891.23	3.501e+04	8891.23	1066.90	137.15	-29.20	0.0	1038.35	138.74	1.735	0.107	0.006
309.28	998.14	3.601e+04	998.14	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.25	241.80	3.625e+04	241.80	337.76	863.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.15	263.76	3.651e+04	263.76	1116.77	820.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0
307.09	1971.45	3.848e+04	1971.45	380.87	856.02	-57.41	0.0	0.0	0.0	0.0	0.0	0.0
306.39	1047.97	3.953e+04	1047.97	1541.20	686.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
301.81	1146.06	4.068e+04	1146.06	873.68	977.24	-41.98	0.0	0.0	0.0	0.0	0.0	0.0
301.73	1549.18	4.223e+04	1549.18	176.87	1002.99	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
300.99	1083.96	4.331e+04	1083.96	1598.65	813.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0
299.16	984.86	4.430e+04	984.86	0.02	1070.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
296.45	869.94	4.517e+04	869.94	1036.42	1108.12	-24.14	0.0	0.0	0.0	0.0	0.0	0.0
296.36	1747.98	4.691e+04	1747.98	189.96	1143.28	-34.57	0.0	0.0	0.0	0.0	0.0	0.0
296.28	1071.25	4.798e+04	1071.25	1655.70	941.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.06	197.16	4.818e+04	197.16	723.52	1282.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
291.00	2026.46	5.021e+04	2026.46	706.12	1218.57	-85.65	0.0	0.0	0.0	0.0	0.0	0.0
290.06	107.74	5.032e+04	107.74	1056.99	1272.78	-25.87	0.0	0.0	0.0	0.0	0.0	0.0
290.00	793.76	5.111e+04	793.76	760.61	1270.18	-86.17	0.0	824.70	1257.47	1.242	0.115	0.022
270.00	1.825e+04	6.936e+04	1.825e+04	863.07	1260.98	-86.17	0.0	824.70	1257.47	1.242	0.069	0.006
1.51e-06	405.92	6.977e+04	405.92	0.01	805.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Risulta	6.977e+04		6.977e+04									

LEGENDA TABELLA ANALISI SISMICHE NON LINEARI

Le analisi sismiche non lineari sono state condotte con riferimento al Capitolo 7.3.4.2 del D.M. 17 Gennaio 2018.

In particolare per i singoli casi di carico, oltre a quanto riportato nel capitolo precedente, si individuano:

- stato limite di interesse (SL CO collasso, SL V salvaguardia della vita, SL D danno e SL O operatività)
- modalità di distribuzione delle forze (proporzionale alle masse, funzione della forma modale, approssimata come per statica lineare) e di calcolo dello spostamento del punto di controllo.

Le combinazioni sismiche non lineari sono definite in maniera automatica dal programma in base ai paragrafi 2.5.3 e 7.3.5 del DM 17 Gennaio 2018: l'analisi è svolta considerando l'azione sismica (di segno positivo e negativo) applicata separatamente secondo ciascuna delle due direzioni orizzontali.

I risultati delle analisi di seguito riportati sono pertanto:

- parametri di calcolo dell'azione sismica
- parametri di calcolo del sistema bilineare equivalente e domanda di spostamento effettivo della struttura
- curva forza complessiva applicata / spostamento del punto di controllo

Una prima tabella riassume i parametri di calcolo per l'azione sismica

CDC	Indice del caso di carico sismico
Tipo	Stato limite di interesse (CO collasso, SL V salvaguardia della vita, SL D danno e SL O operatività)
Angolo ing.	Direzione di ingresso del sisma
Distribuzione F	Modalità di applicazione delle forze sismiche (proporzionale, modale, statica approssimata)
Nodo Dc	Nodo assunto come punto di controllo della curva forza spostamento.
Uso Dc	Modalità di calcolo dello spostamento del punto di controllo effettivo/mediato (valore medio del piano di appartenenza)
Modo/CDC	Forma modale adottata per il calcolo del fattore di partecipazione gamma e per l'eventuale distribuzione delle forze sismiche (se distribuzione = modale); ovvero caso di carico statico assunto come prima forma modale approssimata
Periodo	Periodo del modo adottato
M sismica x g	Massa effettiva
m*	Massa del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
m* % stat.	Percentuale di massa partecipante statica (m^* / massa)
m* % din.	Percentuale di massa partecipante dinamica (fattore di partecipazione del modo adottato nella direzione del sisma)
Part. Gamma	Fattore di partecipazione (circolare 2 febbraio 2009 paragrafo C7.3.4.1)

La seconda tabella riassume per tutte le combinazioni analizzate le caratteristiche dell' oscillatore equivalente e la domanda in termini di spostamento assunta per la struttura:

Cmb (LC)	Indice della combinazione di interesse con caso di carico considerato e verso (+/-)
Tipo	Stato limite di interesse (CO collasso, SL V salvaguardia della vita, SL D danno e SL O operatività)
D<C	Controllo della condizione domanda inferiore a capacità (se NO d verif. è assunto pari a d Ultimo nella curva di capacità come riportato alla tabella successiva)
sup. Danno	Indica se elementi hanno superato lo spostamento interpiano di danno
sup. Rottura	Indica se elementi hanno superato lo spostamento interpiano ultimo
d verif.	Spostamento orizzontale effettivo del punto di controllo: prodotto di gamma e d* max; nel caso in cui D>C si assume convenzionalmente d verif. pari alla capacità ultima dU (vedi tabella successiva)
PGA verif.	Accelerazione corrispondente allo spostamento d verif.
F verif.	Taglio alla base corrispondente allo spostamento d verif.
Se(T*)	Accelerazione (ordinata spettro elastico) corrispondente a T*
d* max	Risposta in spostamento del sistema equivalente per l' azione sismica (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
q*	Rapporto tra forza di risposta elastica e forza di snervamento del sistema equivalente. (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
dy*	Spostamento limite elastico del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
Fy*	Resistenza del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
K*	Rigidità del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)
T*	Periodo del sistema equivalente (circolare 2 febbraio 2009 paragrafo C7.3.4.1)

Per ogni combinazione analizzata, viene di seguito riportata la curva di capacità della struttura per mezzo dei punti significativi:

Cmb (LC)	Indice della combinazione di interesse con caso di carico considerato e verso (+/-)
d D	Spostamento del punto di controllo in corrispondenza al superamento dello spostamento di interpiano (per la muratura se non attinto si assume d M)
d P1	Spostamento del punto di controllo in corrispondenza alla formazione della prima plasticità concentrata
d M	Spostamento del punto di controllo in corrispondenza al massimo taglio alla base
d U	Spostamento del punto di controllo in corrispondenza alla capacità ultima
d R	Spostamento del punto di controllo in corrispondenza al massimo spostamento dell'oscillatore equivalente
PGA	Accelerazione corrispondente agli spostamenti sopra riportati
F	Taglio alla base corrispondente agli spostamenti sopra riportati

e in forma integrale:

d Dc	Spostamento del punto di controllo
Tag. Fb	Taglio complessivo alla base relativo allo spostamento d Dc

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

Test N°	Titolo
85	ANALISI PUSHOVER DI UN EDIFICIO IN C.A.
86	ANALISI PUSHOVER DI UNA STRUTTURA IN MURATURA
87	ANALISI ELASTO PLASTICA INCREMENTALE
88	ANALISI ELASTO PLASTICA INCREMENTALE
89	ANALISI ELASTO PLASTICA INCREMENTALE, PARETE IN MURATURA

CDC	Tipo	Angolo ing.	Distribuzione F	Nodo Dc	Uso Dc	Modo	Periodo	M Sismica x g	m*	m* % stat	m* % din	Part. Gamma
		gradi					sec	daN	daN			
8	SLV-DS	0.0	Stat. equiv.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
9	SLV-DS	0.0	Stat. equiv.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
10	SLV-DS	90.0	Stat. equiv.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
11	SLV-DS	90.0	Stat. equiv.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
12	SLV-DS	0.0	Proporz.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
13	SLV-DS	0.0	Proporz.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
14	SLV-DS	90.0	Proporz.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
15	SLV-DS	90.0	Proporz.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
16	SLD-DL	0.0	Stat. equiv.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
17	SLD-DL	0.0	Stat. equiv.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
18	SLD-DL	90.0	Stat. equiv.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
19	SLD-DL	90.0	Stat. equiv.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
20	SLD-DL	0.0	Proporz.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
21	SLD-DL	0.0	Proporz.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
22	SLD-DL	90.0	Proporz.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
23	SLD-DL	90.0	Proporz.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
24		0.0	Stat. equiv.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
25		0.0	Stat. equiv.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
26		90.0	Stat. equiv.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
27		90.0	Stat. equiv.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
28		0.0	Proporz.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
29		0.0	Proporz.	25	Mediato	1	0.0	6.977e+04	4.803e+04	68.8	0.0	1.26
30		90.0	Proporz.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19
31		90.0	Proporz.	69	Mediato	1	0.0	6.977e+04	5.713e+04	81.9	0.0	1.19

Cmb (LC)	Tipo	D<C	sup. Danno	sup. Rottura	d verif.	PGA verif.	F verif.	Se(T*)	d* max	q*	d y*	F y*	K*	T*
					cm	g	daN	g	cm		cm	daN	daN/cm	sec
5 (-8)	SLU-V	SI	NO	NO	-0.08	0.10	-1.667e+04	0.28	0.06	0.16	0.38	8.114e+04	2.122e+05	0.10
6 (8)	SLU-V	SI	NO	NO	0.08	0.10	1.667e+04	0.28	0.06	0.16	0.39	8.177e+04	2.119e+05	0.10
7 (-9)	SLU-V	SI	NO	NO	-0.08	0.10	-1.667e+04	0.28	0.06	0.17	0.38	8.043e+04	2.099e+05	0.10
8 (9)	SLU-V	SI	NO	NO	0.08	0.10	1.667e+04	0.28	0.06	0.16	0.39	8.140e+04	2.096e+05	0.10
9 (-10)	SLU-V	SI	SI	NO	-0.08	0.10	-1.891e+04	0.28	0.07	0.16	0.41	9.997e+04	2.447e+05	0.10
10 (10)	SLU-V	SI	NO	NO	0.08	0.10	1.891e+04	0.28	0.06	0.16	0.40	9.837e+04	2.467e+05	0.10
11 (-11)	SLU-V	SI	SI	NO	-0.08	0.10	-1.891e+04	0.28	0.06	0.16	0.41	1.018e+05	2.457e+05	0.10
12 (11)	SLU-V	SI	NO	NO	0.08	0.10	1.891e+04	0.28	0.06	0.16	0.40	9.859e+04	2.469e+05	0.10
13 (-12)	SLU-V	SI	NO	NO	-0.08	0.10	-1.667e+04	0.28	0.06	0.17	0.39	8.004e+04	2.061e+05	0.10
14 (12)	SLU-V	SI	NO	NO	0.08	0.10	1.667e+04	0.28	0.06	0.16	0.39	8.119e+04	2.059e+05	0.10
15 (-13)	SLU-V	SI	NO	NO	-0.08	0.10	-1.667e+04	0.28	0.07	0.17	0.40	8.064e+04	2.038e+05	0.10
16 (13)	SLU-V	SI	NO	NO	0.08	0.10	1.667e+04	0.28	0.07	0.17	0.39	8.040e+04	2.036e+05	0.10
17 (-14)	SLU-V	SI	SI	NO	-0.08	0.10	-1.891e+04	0.28	0.06	0.16	0.41	1.002e+05	2.466e+05	0.10
18 (14)	SLU-V	SI	NO	NO	0.08	0.10	1.891e+04	0.28	0.06	0.16	0.39	9.803e+04	2.486e+05	0.10
19 (-15)	SLU-V	SI	SI	NO	-0.08	0.10	-1.891e+04	0.28	0.06	0.15	0.41	1.027e+05	2.477e+05	0.10
20 (15)	SLU-V	SI	NO	NO	0.08	0.10	1.891e+04	0.28	0.06	0.16	0.40	9.924e+04	2.489e+05	0.10
21 (-16)	SLE-D	SI	NO	NO	-0.05	0.06	-9976.6	0.16	0.04	0.09	0.38	8.114e+04	2.122e+05	0.10
22 (16)	SLE-D	SI	NO	NO	0.05	0.06	9976.6	0.16	0.04	0.09	0.39	8.177e+04	2.119e+05	0.10
23 (-17)	SLE-D	SI	NO	NO	-0.05	0.06	-9976.6	0.16	0.04	0.10	0.38	8.043e+04	2.099e+05	0.10
24 (17)	SLE-D	SI	NO	NO	0.05	0.06	9976.6	0.16	0.04	0.09	0.39	8.140e+04	2.096e+05	0.10
25 (-18)	SLE-D	SI	SI	NO	-0.04	0.06	-1.109e+04	0.16	0.04	0.09	0.41	9.997e+04	2.447e+05	0.10
26 (18)	SLE-D	SI	NO	NO	0.04	0.06	1.109e+04	0.16	0.04	0.09	0.40	9.837e+04	2.467e+05	0.10
27 (-19)	SLE-D	SI	SI	NO	-0.04	0.06	-1.109e+04	0.16	0.04	0.09	0.41	1.018e+05	2.457e+05	0.10
28 (19)	SLE-D	SI	NO	NO	0.04	0.06	1.109e+04	0.16	0.04	0.09	0.40	9.859e+04	2.469e+05	0.10
29 (-20)	SLE-D	SI	NO	NO	-0.05	0.06	-9976.6	0.16	0.04	0.10	0.39	8.004e+04	2.061e+05	0.10
30 (20)	SLE-D	SI	NO	NO	0.05	0.06	9976.6	0.16	0.04	0.09	0.39	8.119e+04	2.059e+05	0.10
31 (-21)	SLE-D	SI	NO	NO	-0.05	0.06	-9976.6	0.16	0.04	0.10	0.40	8.064e+04	2.038e+05	0.10
32 (21)	SLE-D	SI	NO	NO	0.05	0.06	9976.6	0.16	0.04	0.10	0.39	8.040e+04	2.036e+05	0.10
33 (-22)	SLE-D	SI	SI	NO	-0.04	0.06	-1.109e+04	0.16	0.04	0.09	0.41	1.002e+05	2.466e+05	0.10
34 (22)	SLE-D	SI	NO	NO	0.04	0.06	1.109e+04	0.16	0.04	0.09	0.39	9.803e+04	2.486e+05	0.10
35 (-23)	SLE-D	SI	SI	NO	-0.04	0.06	-1.109e+04	0.16	0.04	0.09	0.41	1.027e+05	2.477e+05	0.10
36 (23)	SLE-D	SI	NO	NO	0.04	0.06	1.109e+04	0.16	0.04	0.09	0.40	9.924e+04	2.489e+05	0.10
37 (-24)	SLE-O	SI	NO	NO	-0.05	0.06	-9976.6	0.16	0.04	0.09	0.38	8.114e+04	2.122e+05	0.10
38 (24)	SLE-O	SI	NO	NO	0.05	0.06	9976.6	0.16	0.04	0.09	0.39	8.177e+04	2.119e+05	0.10
39 (-25)	SLE-O	SI	NO	NO	-0.05	0.06	-9976.6	0.16	0.04	0.10	0.38	8.043e+04	2.099e+05	0.10
40 (25)	SLE-O	SI	NO	NO	0.05	0.06	9976.6	0.16	0.04	0.09	0.39	8.140e+04	2.096e+05	0.10
41 (-26)	SLE-O	SI	SI	NO	-0.04	0.06	-1.109e+04	0.16	0.04	0.09	0.41	9.997e+04	2.447e+05	0.10
42 (26)	SLE-O	SI	NO	NO	0.04	0.06	1.109e+04	0.16	0.04	0.09	0.40	9.837e+04	2.467e+05	0.10
43 (-27)	SLE-O	SI	SI	NO	-0.04	0.06	-1.109e+04	0.16	0.04	0.09	0.41	1.018e+05	2.457e+05	0.10
44 (27)	SLE-O	SI	NO	NO	0.04	0.06	1.109e+04	0.16	0.04	0.09	0.40	9.859e+04	2.469e+05	0.10
45 (-28)	SLE-O	SI	NO	NO	-0.05	0.06	-9976.6	0.16	0.04	0.10	0.39	8.004e+04	2.061e+05	0.10
46 (28)	SLE-O	SI	NO	NO	0.05	0.06	9976.6	0.16	0.04	0.09	0.39	8.119e+04	2.059e+05	0.10

Cmb (LC)	Tipo	D<C	sup. Danno	sup. Rottura	d verif.	PGA verif.	F verif.	Se(T*)	d* max	q*	d y*	F y*	K*	T*
47 (-29)	SLE-O	SI	NO	NO	-0.05	0.06	-9976.6	0.16	0.04	0.10	0.40	8.064e+04	2.038e+05	0.10
48 (29)	SLE-O	SI	NO	NO	0.05	0.06	9976.6	0.16	0.04	0.10	0.39	8.040e+04	2.036e+05	0.10
49 (-30)	SLE-O	SI	SI	NO	-0.04	0.06	-1.109e+04	0.16	0.04	0.09	0.41	1.002e+05	2.466e+05	0.10
50 (30)	SLE-O	SI	NO	NO	0.04	0.06	1.109e+04	0.16	0.04	0.09	0.39	9.803e+04	2.486e+05	0.10
51 (-31)	SLE-O	SI	SI	NO	-0.04	0.06	-1.109e+04	0.16	0.04	0.09	0.41	1.027e+05	2.477e+05	0.10
52 (31)	SLE-O	SI	NO	NO	0.04	0.06	1.109e+04	0.16	0.04	0.09	0.40	9.924e+04	2.489e+05	0.10

Cmb (LC)	d D	PGA D	Fb D	d P1	PGA P1	Fb P1	d M	PGA M	Fb M	d U	PGA U	Fb U	d R	PGA R	Fb R
	cm	g	daN	cm	g	daN	cm	g	daN	cm	g	daN	cm	g	daN
5 (-8)				-0.37	0.48	-	-1.11	0.86	-	-1.11	0.86	-	-1.11	0.86	-
						7.807e+04			1.105e+05			1.105e+05			1.105e+05
6 (8)				4.92e-03	6.33e-03	1046.5	1.24	0.92	1.112e+05	1.24	0.92	1.112e+05	1.24	0.92	1.112e+05
7 (-9)				-0.40	0.51	-	-1.11	0.85	-	-1.11	0.85	-	-1.11	0.85	-
						8.142e+04			1.100e+05			1.100e+05			1.100e+05
8 (9)				4.98e-03	6.31e-03	1046.5	1.28	0.92	1.111e+05	1.28	0.92	1.111e+05	1.28	0.92	1.111e+05
9 (-10)	-1.07	0.87	-	-0.36	0.47	-	-1.61	1.01	-	-1.61	1.01	-	-1.61	1.01	-
			1.228e+05			8.519e+04			1.300e+05			1.300e+05			1.300e+05
10 (10)				0.01	0.02	3279.0	1.15	0.90	1.278e+05	1.15	0.90	1.278e+05	1.15	0.90	1.278e+05
11 (-11)	-1.34	0.99	-	-0.01	0.02	-3279.0	-1.77	1.01	-	-1.77	1.01	-	-1.77	1.01	-
			1.265e+05						1.321e+05			1.321e+05			1.321e+05
12 (11)				8.75e-03	0.01	2162.8	1.08	0.87	1.268e+05	1.08	0.87	1.268e+05	1.08	0.87	1.268e+05
13 (-12)				-0.39	0.48	-	-1.12	0.84	-	-1.12	0.84	-	-1.12	0.84	-
						7.807e+04			1.101e+05			1.101e+05			1.101e+05
14 (12)				5.07e-03	6.28e-03	1046.5	1.30	0.92	1.114e+05	1.30	0.92	1.114e+05	1.30	0.92	1.114e+05
15 (-13)				-0.40	0.48	-	-1.25	0.89	-	-1.25	0.89	-	-1.25	0.89	-
						7.807e+04			1.108e+05			1.108e+05			1.108e+05
16 (13)				5.13e-03	6.26e-03	1046.5	1.29	0.90	1.109e+05	1.29	0.90	1.109e+05	1.29	0.90	1.109e+05
17 (-14)	-1.04	0.86	-	-0.36	0.47	-	-1.57	1.01	-	-1.57	1.01	-	-1.57	1.01	-
			1.232e+05			8.581e+04			1.304e+05			1.304e+05			1.304e+05
18 (14)				0.02	0.02	4395.3	1.10	0.88	1.280e+05	1.10	0.88	1.280e+05	1.10	0.88	1.280e+05
19 (-15)	-1.26	0.96	-	-0.01	0.02	-3279.0	-1.79	1.01	-	-1.79	1.01	-	-1.79	1.01	-
			1.263e+05						1.330e+05			1.330e+05			1.330e+05
20 (15)				8.68e-03	0.01	2162.8	1.09	0.88	1.276e+05	1.09	0.88	1.276e+05	1.09	0.88	1.276e+05
21 (-16)				-0.37	0.45	-	-1.11	0.54	-	-1.11	0.54	-	-1.11	0.54	-
						7.807e+04			1.105e+05			1.105e+05			1.105e+05
22 (16)				4.92e-03	5.86e-03	1046.5	1.24	0.54	1.112e+05	1.24	0.54	1.112e+05	1.24	0.54	1.112e+05
23 (-17)				-0.40	0.47	-	-1.11	0.54	-	-1.11	0.54	-	-1.11	0.54	-
						8.142e+04			1.100e+05			1.100e+05			1.100e+05
24 (17)				4.98e-03	5.86e-03	1046.5	1.28	0.54	1.111e+05	1.28	0.54	1.111e+05	1.28	0.54	1.111e+05
25 (-18)	-1.07	0.54	-	-0.36	0.44	-	-1.61	0.54	-	-1.61	0.54	-	-1.61	0.54	-
			1.228e+05			8.519e+04			1.300e+05			1.300e+05			1.300e+05
26 (18)				0.01	0.02	3279.0	1.15	0.54	1.278e+05	1.15	0.54	1.278e+05	1.15	0.54	1.278e+05
27 (-19)	-1.34	0.54	-	-0.01	0.02	-3279.0	-1.77	0.54	-	-1.77	0.54	-	-1.77	0.54	-
			1.265e+05						1.321e+05			1.321e+05			1.321e+05
28 (19)				8.75e-03	0.01	2162.8	1.08	0.54	1.268e+05	1.08	0.54	1.268e+05	1.08	0.54	1.268e+05
29 (-20)				-0.39	0.45	-	-1.12	0.54	-	-1.12	0.54	-	-1.12	0.54	-
						7.807e+04			1.101e+05			1.101e+05			1.101e+05
30 (20)				5.07e-03	5.86e-03	1046.5	1.30	0.54	1.114e+05	1.30	0.54	1.114e+05	1.30	0.54	1.114e+05
31 (-21)				-0.40	0.45	-	-1.25	0.54	-	-1.25	0.54	-	-1.25	0.54	-
						7.807e+04			1.108e+05			1.108e+05			1.108e+05
32 (21)				5.13e-03	5.86e-03	1046.5	1.29	0.54	1.109e+05	1.29	0.54	1.109e+05	1.29	0.54	1.109e+05
33 (-22)	-1.04	0.54	-	-0.36	0.44	-	-1.57	0.54	-	-1.57	0.54	-	-1.57	0.54	-
			1.232e+05			8.581e+04			1.304e+05			1.304e+05			1.304e+05
34 (22)				0.02	0.02	4395.3	1.10	0.54	1.280e+05	1.10	0.54	1.280e+05	1.10	0.54	1.280e+05
35 (-23)	-1.26	0.54	-	-0.01	0.02	-3279.0	-1.79	0.54	-	-1.79	0.54	-	-1.79	0.54	-
			1.263e+05						1.330e+05			1.330e+05			1.330e+05
36 (23)				8.68e-03	0.01	2162.8	1.09	0.54	1.276e+05	1.09	0.54	1.276e+05	1.09	0.54	1.276e+05
37 (-24)				-0.37	0.45	-	-1.11	0.54	-	-1.11	0.54	-	-1.11	0.54	-
						7.807e+04			1.105e+05			1.105e+05			1.105e+05
38 (24)				4.92e-03	5.86e-03	1046.5	1.24	0.54	1.112e+05	1.24	0.54	1.112e+05	1.24	0.54	1.112e+05
39 (-25)				-0.40	0.47	-	-1.11	0.54	-	-1.11	0.54	-	-1.11	0.54	-
						8.142e+04			1.100e+05			1.100e+05			1.100e+05
40 (25)				4.98e-03	5.86e-03	1046.5	1.28	0.54	1.111e+05	1.28	0.54	1.111e+05	1.28	0.54	1.111e+05
41 (-26)	-1.07	0.54	-	-0.36	0.44	-	-1.61	0.54	-	-1.61	0.54	-	-1.61	0.54	-
			1.228e+05			8.519e+04			1.300e+05			1.300e+05			1.300e+05
42 (26)				0.01	0.02	3279.0	1.15	0.54	1.278e+05	1.15	0.54	1.278e+05	1.15	0.54	1.278e+05
43 (-27)	-1.34	0.54	-	-0.01	0.02	-3279.0	-1.77	0.54	-	-1.77	0.54	-	-1.77	0.54	-
			1.265e+05						1.321e+05			1.321e+05			1.321e+05
44 (27)				8.75e-03	0.01	2162.8	1.08	0.54	1.268e+05	1.08	0.54	1.268e+05	1.08	0.54	1.268e+05
45 (-28)				-0.39	0.45	-	-1.12	0.54	-	-1.12	0.54	-	-1.12	0.54	-
						7.807e+04			1.101e+05			1.101e+05			1.101e+05
46 (28)				5.07e-03	5.86e-03	1046.5	1.30	0.54	1.114e+05	1.30	0.54	1.114e+05	1.30	0.54	1.114e+05

Cmb (LC)	d D	PGA D	Fb D	d P1	PGA P1	Fb P1	d M	PGA M	Fb M	d U	PGA U	Fb U	d R	PGA R	Fb R
47 (-29)				-0.40	0.45	-7.807e+04	-1.25	0.54	-1.108e+05	-1.25	0.54	-1.108e+05	-1.25	0.54	-1.108e+05
48 (29)				5.13e-03	5.86e-03	1046.5	1.29	0.54	1.109e+05	1.29	0.54	1.109e+05	1.29	0.54	1.109e+05
49 (-30)	-1.04	0.54	-1.232e+05	-0.36	0.44	-8.581e+04	-1.57	0.54	-1.304e+05	-1.57	0.54	-1.304e+05	-1.57	0.54	-1.304e+05
50 (30)				0.02	0.02	4395.3	1.10	0.54	1.280e+05	1.10	0.54	1.280e+05	1.10	0.54	1.280e+05
51 (-31)	-1.26	0.54	-1.263e+05	-0.01	0.02	-3279.0	-1.79	0.54	-1.330e+05	-1.79	0.54	-1.330e+05	-1.79	0.54	-1.330e+05
52 (31)				8.68e-03	0.01	2162.8	1.09	0.54	1.276e+05	1.09	0.54	1.276e+05	1.09	0.54	1.276e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
5	0.0	0.0	-3.28e-04	-69.8	-9.84e-04	-209.3	-2.30e-03	-488.4	-4.92e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.06	-1.333e+04	-0.07	-1.444e+04	-0.07	-1.556e+04
	-0.08	-1.667e+04	-0.08	-1.779e+04	-0.09	-1.891e+04	-0.09	-2.002e+04	-0.10	-2.114e+04	-0.10	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.12	-2.560e+04	-0.13	-2.672e+04	-0.13	-2.784e+04	-0.14	-2.895e+04
	-0.14	-3.007e+04	-0.15	-3.119e+04	-0.15	-3.230e+04	-0.16	-3.342e+04	-0.16	-3.453e+04	-0.17	-3.565e+04
	-0.17	-3.677e+04	-0.18	-3.788e+04	-0.18	-3.900e+04	-0.19	-4.012e+04	-0.19	-4.123e+04	-0.20	-4.235e+04
	-0.20	-4.346e+04	-0.21	-4.458e+04	-0.22	-4.570e+04	-0.22	-4.681e+04	-0.23	-4.793e+04	-0.23	-4.905e+04
	-0.24	-5.016e+04	-0.24	-5.128e+04	-0.25	-5.239e+04	-0.25	-5.351e+04	-0.26	-5.463e+04	-0.26	-5.574e+04
	-0.27	-5.686e+04	-0.27	-5.798e+04	-0.28	-5.909e+04	-0.28	-6.021e+04	-0.29	-6.132e+04	-0.29	-6.244e+04
	-0.30	-6.356e+04	-0.30	-6.467e+04	-0.31	-6.579e+04	-0.32	-6.691e+04	-0.32	-6.802e+04	-0.33	-6.914e+04
	-0.33	-7.026e+04	-0.34	-7.137e+04	-0.34	-7.249e+04	-0.34	-7.252e+04	-0.34	-7.256e+04	-0.34	-7.263e+04
	-0.34	-7.277e+04	-0.34	-7.305e+04	-0.35	-7.360e+04	-0.35	-7.472e+04	-0.36	-7.584e+04	-0.36	-7.587e+04
	-0.36	-7.591e+04	-0.36	-7.598e+04	-0.36	-7.612e+04	-0.36	-7.639e+04	-0.37	-7.695e+04	-0.37	-7.807e+04
	-0.37	-7.810e+04	-0.37	-7.814e+04	-0.37	-7.821e+04	-0.38	-7.835e+04	-0.38	-7.863e+04	-0.38	-7.919e+04
	-0.39	-8.030e+04	-0.40	-8.142e+04	-0.40	-8.253e+04	-0.41	-8.365e+04	-0.41	-8.369e+04	-0.41	-8.372e+04
	-0.41	-8.379e+04	-0.42	-8.393e+04	-0.42	-8.421e+04	-0.42	-8.477e+04	-0.42	-8.480e+04	-0.42	-8.484e+04
	-0.42	-8.491e+04	-0.43	-8.505e+04	-0.43	-8.532e+04	-0.43	-8.536e+04	-0.43	-8.539e+04	-0.43	-8.546e+04
	-0.43	-8.560e+04	-0.43	-8.588e+04	-0.44	-8.644e+04	-0.45	-8.756e+04	-0.46	-8.867e+04	-0.48	-8.979e+04
	-0.49	-9.091e+04	-0.49	-9.094e+04	-0.49	-9.098e+04	-0.49	-9.105e+04	-0.49	-9.119e+04	-0.50	-9.146e+04
	-0.50	-9.202e+04	-0.50	-9.206e+04	-0.50	-9.209e+04	-0.51	-9.216e+04	-0.51	-9.230e+04	-0.51	-9.258e+04
	-0.52	-9.314e+04	-0.54	-9.425e+04	-0.54	-9.429e+04	-0.54	-9.432e+04	-0.54	-9.439e+04	-0.54	-9.453e+04
	-0.54	-9.481e+04	-0.54	-9.485e+04	-0.54	-9.488e+04	-0.55	-9.495e+04	-0.55	-9.509e+04	-0.55	-9.513e+04
	-0.55	-9.516e+04	-0.55	-9.523e+04	-0.56	-9.537e+04	-0.56	-9.565e+04	-0.57	-9.621e+04	-0.60	-9.732e+04
	-0.63	-9.844e+04	-0.65	-9.956e+04	-0.65	-9.959e+04	-0.65	-9.963e+04	-0.66	-9.970e+04	-0.66	-9.984e+04
	-0.67	-1.001e+05	-0.68	-1.007e+05	-0.71	-1.018e+05	-0.71	-1.018e+05	-0.71	-1.019e+05	-0.71	-1.019e+05
	-0.72	-1.021e+05	-0.73	-1.023e+05	-0.74	-1.029e+05	-0.77	-1.040e+05	-0.81	-1.051e+05	-0.81	-1.052e+05
	-0.81	-1.052e+05	-0.81	-1.053e+05	-0.82	-1.054e+05	-0.83	-1.057e+05	-0.83	-1.057e+05	-0.83	-1.058e+05
	-0.83	-1.058e+05	-0.84	-1.060e+05	-0.84	-1.060e+05	-0.84	-1.060e+05	-0.84	-1.061e+05	-0.85	-1.063e+05
	-0.86	-1.065e+05	-0.88	-1.071e+05	-0.94	-1.082e+05	-0.94	-1.082e+05	-0.94	-1.083e+05	-0.95	-1.083e+05
	-0.96	-1.085e+05	-0.97	-1.088e+05	-1.01	-1.093e+05	-1.10	-1.104e+05	-1.11	-1.105e+05		
Cmb	Sp. Dc	Tag. Fb										
	-1.11	-1.105e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
6	0.0	0.0	3.28e-04	69.8	9.84e-04	209.3	2.30e-03	488.4	4.92e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.07	1.556e+04
	0.08	1.667e+04	0.08	1.779e+04	0.09	1.891e+04	0.09	2.002e+04	0.10	2.114e+04	0.10	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.13	2.784e+04	0.14	2.895e+04
	0.14	3.007e+04	0.15	3.119e+04	0.15	3.230e+04	0.16	3.342e+04	0.16	3.453e+04	0.17	3.565e+04
	0.17	3.677e+04	0.18	3.788e+04	0.18	3.900e+04	0.19	4.012e+04	0.19	4.123e+04	0.20	4.235e+04
	0.21	4.346e+04	0.21	4.458e+04	0.22	4.570e+04	0.22	4.681e+04	0.23	4.793e+04	0.23	4.905e+04
	0.24	5.016e+04	0.24	5.128e+04	0.25	5.239e+04	0.25	5.351e+04	0.26	5.463e+04	0.26	5.574e+04
	0.27	5.686e+04	0.27	5.798e+04	0.28	5.909e+04	0.28	6.021e+04	0.29	6.132e+04	0.29	6.244e+04
	0.30	6.356e+04	0.31	6.467e+04	0.31	6.579e+04	0.32	6.691e+04	0.32	6.802e+04	0.33	6.914e+04
	0.33	7.026e+04	0.34	7.137e+04	0.34	7.249e+04	0.35	7.360e+04	0.35	7.472e+04	0.36	7.584e+04
	0.36	7.587e+04	0.36	7.591e+04	0.36	7.598e+04	0.36	7.612e+04	0.36	7.639e+04	0.37	7.695e+04
	0.37	7.699e+04	0.37	7.706e+04	0.37	7.720e+04	0.37	7.748e+04	0.37	7.803e+04	0.38	7.915e+04
	0.39	8.027e+04	0.40	8.138e+04	0.40	8.250e+04	0.40	8.253e+04	0.41	8.257e+04	0.41	8.264e+04
	0.41	8.278e+04	0.41	8.306e+04	0.41	8.362e+04	0.42	8.473e+04	0.43	8.585e+04	0.44	8.696e+04
	0.44	8.700e+04	0.44	8.703e+04	0.44	8.710e+04	0.44	8.724e+04	0.45	8.752e+04	0.45	8.808e+04
	0.45	8.812e+04	0.45	8.819e+04	0.45	8.832e+04	0.46	8.860e+04	0.46	8.864e+04	0.46	8.867e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.46	8.874e+04	0.46	8.888e+04	0.46	8.916e+04	0.47	8.972e+04	0.47	8.975e+04	0.47	8.979e+04
	0.47	8.986e+04	0.47	9.000e+04	0.48	9.028e+04	0.48	9.084e+04	0.50	9.195e+04	0.50	9.199e+04
	0.50	9.202e+04	0.50	9.209e+04	0.50	9.223e+04	0.51	9.251e+04	0.52	9.307e+04	0.55	9.419e+04
	0.57	9.530e+04	0.60	9.642e+04	0.60	9.645e+04	0.60	9.649e+04	0.60	9.656e+04	0.60	9.670e+04
	0.61	9.698e+04	0.62	9.753e+04	0.65	9.865e+04	0.68	9.977e+04	0.68	9.980e+04	0.69	9.984e+04
	0.69	9.991e+04	0.69	1.000e+05	0.70	1.003e+05	0.70	1.004e+05	0.70	1.004e+05	0.70	1.005e+05
	0.71	1.006e+05	0.72	1.009e+05	0.73	1.014e+05	0.77	1.026e+05	0.80	1.037e+05	0.84	1.048e+05
	0.84	1.048e+05	0.84	1.049e+05	0.84	1.049e+05	0.85	1.051e+05	0.85	1.051e+05	0.85	1.052e+05
	0.86	1.053e+05	0.87	1.056e+05	0.89	1.061e+05	0.94	1.073e+05	0.94	1.073e+05	0.94	1.073e+05
	0.94	1.074e+05	0.95	1.075e+05	0.97	1.078e+05	0.97	1.079e+05	0.97	1.079e+05	0.97	1.079e+05
	0.98	1.080e+05	0.98	1.080e+05	0.99	1.082e+05	1.01	1.085e+05	1.05	1.090e+05	1.14	1.101e+05
	1.14	1.102e+05	1.15	1.102e+05	1.16	1.104e+05	1.19	1.106e+05	1.24	1.112e+05		
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.24	1.112e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
7	0.0	0.0	-3.32e-04	-69.8	-9.95e-04	-209.3	-2.32e-03	-488.4	-4.98e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.06	-1.333e+04	-0.07	-1.444e+04	-0.07	-1.556e+04
	-0.08	-1.667e+04	-0.08	-1.779e+04	-0.09	-1.891e+04	-0.10	-2.002e+04	-0.10	-2.114e+04	-0.11	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.12	-2.560e+04	-0.13	-2.672e+04	-0.13	-2.784e+04	-0.14	-2.895e+04
	-0.14	-3.007e+04	-0.15	-3.119e+04	-0.15	-3.230e+04	-0.16	-3.342e+04	-0.16	-3.453e+04	-0.17	-3.565e+04
	-0.18	-3.677e+04	-0.18	-3.788e+04	-0.19	-3.900e+04	-0.19	-4.012e+04	-0.20	-4.123e+04	-0.20	-4.235e+04
	-0.21	-4.346e+04	-0.21	-4.458e+04	-0.22	-4.570e+04	-0.22	-4.681e+04	-0.23	-4.793e+04	-0.23	-4.905e+04
	-0.24	-5.016e+04	-0.24	-5.128e+04	-0.25	-5.239e+04	-0.25	-5.351e+04	-0.26	-5.463e+04	-0.27	-5.574e+04
	-0.27	-5.686e+04	-0.28	-5.798e+04	-0.28	-5.909e+04	-0.29	-6.021e+04	-0.29	-6.132e+04	-0.30	-6.244e+04
	-0.30	-6.356e+04	-0.31	-6.467e+04	-0.31	-6.579e+04	-0.32	-6.691e+04	-0.32	-6.802e+04	-0.33	-6.914e+04
	-0.33	-7.026e+04	-0.34	-7.137e+04	-0.34	-7.141e+04	-0.34	-7.144e+04	-0.34	-7.151e+04	-0.34	-7.165e+04
	-0.34	-7.193e+04	-0.35	-7.249e+04	-0.35	-7.360e+04	-0.36	-7.472e+04	-0.37	-7.584e+04	-0.37	-7.587e+04
	-0.37	-7.591e+04	-0.37	-7.598e+04	-0.37	-7.612e+04	-0.37	-7.639e+04	-0.37	-7.695e+04	-0.37	-7.699e+04
	-0.37	-7.702e+04	-0.37	-7.709e+04	-0.37	-7.723e+04	-0.38	-7.751e+04	-0.38	-7.807e+04	-0.39	-7.919e+04
	-0.40	-8.030e+04	-0.40	-8.142e+04	-0.41	-8.253e+04	-0.41	-8.257e+04	-0.41	-8.264e+04	-0.41	-8.278e+04
	-0.42	-8.306e+04	-0.42	-8.362e+04	-0.43	-8.473e+04	-0.43	-8.477e+04	-0.43	-8.480e+04	-0.43	-8.487e+04
	-0.44	-8.501e+04	-0.44	-8.529e+04	-0.44	-8.585e+04	-0.46	-8.696e+04	-0.47	-8.808e+04	-0.48	-8.920e+04
	-0.50	-9.031e+04	-0.50	-9.035e+04	-0.50	-9.038e+04	-0.50	-9.045e+04	-0.50	-9.059e+04	-0.50	-9.087e+04
	-0.51	-9.143e+04	-0.51	-9.146e+04	-0.51	-9.153e+04	-0.51	-9.167e+04	-0.52	-9.195e+04	-0.53	-9.251e+04
	-0.53	-9.255e+04	-0.53	-9.258e+04	-0.53	-9.265e+04	-0.53	-9.279e+04	-0.53	-9.307e+04	-0.54	-9.363e+04
	-0.54	-9.366e+04	-0.54	-9.370e+04	-0.54	-9.377e+04	-0.55	-9.391e+04	-0.55	-9.419e+04	-0.55	-9.422e+04
	-0.55	-9.425e+04	-0.55	-9.432e+04	-0.56	-9.446e+04	-0.56	-9.474e+04	-0.58	-9.530e+04	-0.60	-9.642e+04
	-0.63	-9.753e+04	-0.66	-9.865e+04	-0.66	-9.868e+04	-0.66	-9.872e+04	-0.66	-9.875e+04	-0.66	-9.882e+04
	-0.66	-9.896e+04	-0.67	-9.924e+04	-0.69	-9.980e+04	-0.71	-1.009e+05	-0.74	-1.020e+05	-0.75	-1.021e+05
	-0.75	-1.021e+05	-0.75	-1.022e+05	-0.75	-1.023e+05	-0.76	-1.026e+05	-0.78	-1.032e+05	-0.81	-1.043e+05
	-0.81	-1.043e+05	-0.81	-1.044e+05	-0.82	-1.044e+05	-0.82	-1.044e+05	-0.82	-1.045e+05	-0.82	-1.047e+05
	-0.83	-1.049e+05	-0.83	-1.050e+05	-0.84	-1.050e+05	-0.84	-1.050e+05	-0.84	-1.051e+05	-0.85	-1.052e+05
	-0.86	-1.055e+05	-0.88	-1.061e+05	-0.93	-1.072e+05	-0.93	-1.072e+05	-0.94	-1.073e+05	-0.94	-1.073e+05
	-0.95	-1.075e+05	-0.95	-1.075e+05	-0.95	-1.075e+05	-0.96	-1.076e+05	-0.96	-1.078e+05	-0.98	-1.080e+05
	-1.01	-1.086e+05	-1.08	-1.097e+05	-1.09	-1.097e+05	-1.09	-1.098e+05	-1.09	-1.098e+05	-1.11	-1.100e+05
	-1.11	-1.100e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.11	-1.100e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
8	0.0	0.0	3.32e-04	69.8	9.95e-04	209.3	2.32e-03	488.4	4.98e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.07	1.556e+04
	0.08	1.667e+04	0.08	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.13	2.784e+04	0.14	2.895e+04
	0.14	3.007e+04	0.15	3.119e+04	0.15	3.230e+04	0.16	3.342e+04	0.16	3.453e+04	0.17	3.565e+04
	0.18	3.677e+04	0.18	3.788e+04	0.19	3.900e+04	0.19	4.012e+04	0.20	4.123e+04	0.20	4.235e+04
	0.21	4.346e+04	0.21	4.458e+04	0.22	4.570e+04	0.22	4.681e+04	0.23	4.793e+04	0.23	4.905e+04
	0.24	5.016e+04	0.24	5.128e+04	0.25	5.239e+04	0.26	5.351e+04	0.26	5.463e+04	0.27	5.574e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.27	5.686e+04	0.28	5.798e+04	0.28	5.909e+04	0.29	6.021e+04	0.29	6.132e+04	0.30	6.244e+04
	0.30	6.356e+04	0.31	6.467e+04	0.31	6.579e+04	0.32	6.691e+04	0.32	6.802e+04	0.33	6.914e+04
	0.34	7.026e+04	0.34	7.137e+04	0.35	7.249e+04	0.35	7.360e+04	0.36	7.472e+04	0.36	7.475e+04
	0.36	7.479e+04	0.36	7.486e+04	0.36	7.500e+04	0.36	7.528e+04	0.36	7.531e+04	0.36	7.538e+04
	0.36	7.552e+04	0.36	7.580e+04	0.37	7.636e+04	0.37	7.639e+04	0.37	7.643e+04	0.37	7.650e+04
	0.37	7.664e+04	0.37	7.692e+04	0.38	7.748e+04	0.38	7.859e+04	0.39	7.971e+04	0.40	8.082e+04
	0.40	8.086e+04	0.40	8.089e+04	0.40	8.096e+04	0.40	8.110e+04	0.40	8.138e+04	0.41	8.194e+04
	0.42	8.306e+04	0.43	8.417e+04	0.44	8.529e+04	0.45	8.641e+04	0.46	8.752e+04	0.46	8.756e+04
	0.46	8.763e+04	0.46	8.777e+04	0.46	8.780e+04	0.46	8.784e+04	0.46	8.791e+04	0.46	8.805e+04
	0.46	8.832e+04	0.46	8.836e+04	0.47	8.839e+04	0.47	8.846e+04	0.47	8.860e+04	0.47	8.888e+04
	0.48	8.944e+04	0.49	9.056e+04	0.49	9.059e+04	0.49	9.063e+04	0.49	9.070e+04	0.49	9.073e+04
	0.49	9.077e+04	0.49	9.084e+04	0.50	9.087e+04	0.50	9.091e+04	0.50	9.098e+04	0.50	9.112e+04
	0.51	9.139e+04	0.51	9.143e+04	0.51	9.150e+04	0.51	9.164e+04	0.52	9.192e+04	0.53	9.248e+04
	0.56	9.359e+04	0.58	9.471e+04	0.61	9.582e+04	0.61	9.586e+04	0.61	9.589e+04	0.61	9.596e+04
	0.61	9.610e+04	0.62	9.638e+04	0.64	9.694e+04	0.66	9.806e+04	0.69	9.917e+04	0.70	9.921e+04
	0.70	9.924e+04	0.70	9.931e+04	0.70	9.945e+04	0.70	9.949e+04	0.71	9.956e+04	0.71	9.970e+04
	0.71	9.973e+04	0.71	9.977e+04	0.71	9.984e+04	0.72	9.998e+04	0.73	1.003e+05	0.74	1.008e+05
	0.78	1.019e+05	0.81	1.030e+05	0.85	1.042e+05	0.85	1.042e+05	0.85	1.042e+05	0.86	1.043e+05
	0.86	1.044e+05	0.86	1.045e+05	0.86	1.045e+05	0.87	1.047e+05	0.88	1.050e+05	0.90	1.055e+05
	0.95	1.066e+05	0.96	1.067e+05	0.96	1.067e+05	0.96	1.068e+05	0.97	1.069e+05	0.98	1.072e+05
	1.01	1.078e+05	1.02	1.078e+05	1.02	1.079e+05	1.03	1.080e+05	1.04	1.083e+05	1.08	1.088e+05
	1.08	1.089e+05	1.09	1.089e+05	1.09	1.090e+05	1.10	1.091e+05	1.12	1.094e+05	1.17	1.100e+05
	1.17	1.100e+05	1.17	1.100e+05	1.18	1.101e+05	1.19	1.102e+05	1.22	1.105e+05	1.28	1.111e+05
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.28	1.111e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
9	0.0	0.0	-2.83e-04	-69.8	-8.49e-04	-209.3	-1.98e-03	-488.4	-4.25e-03	-1046.5	-8.77e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.14	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.18	-4.346e+04	-0.18	-4.458e+04	-0.19	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.23	-5.574e+04
	-0.23	-5.686e+04	-0.24	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.27	-6.579e+04	-0.27	-6.691e+04	-0.28	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.479e+04	-0.30	-7.486e+04	-0.30	-7.500e+04	-0.30	-7.503e+04	-0.30	-7.507e+04	-0.30	-7.510e+04
	-0.31	-7.517e+04	-0.31	-7.521e+04	-0.31	-7.528e+04	-0.31	-7.542e+04	-0.31	-7.570e+04	-0.31	-7.625e+04
	-0.32	-7.737e+04	-0.32	-7.849e+04	-0.33	-7.960e+04	-0.33	-8.072e+04	-0.33	-8.075e+04	-0.33	-8.079e+04
	-0.33	-8.086e+04	-0.33	-8.100e+04	-0.33	-8.128e+04	-0.34	-8.184e+04	-0.34	-8.295e+04	-0.35	-8.407e+04
	-0.36	-8.519e+04	-0.36	-8.630e+04	-0.36	-8.634e+04	-0.36	-8.637e+04	-0.36	-8.644e+04	-0.36	-8.658e+04
	-0.37	-8.686e+04	-0.37	-8.742e+04	-0.38	-8.853e+04	-0.38	-8.857e+04	-0.38	-8.864e+04	-0.38	-8.878e+04
	-0.38	-8.906e+04	-0.39	-8.962e+04	-0.39	-9.073e+04	-0.39	-9.077e+04	-0.39	-9.080e+04	-0.39	-9.084e+04
	-0.40	-9.091e+04	-0.40	-9.105e+04	-0.40	-9.132e+04	-0.40	-9.136e+04	-0.40	-9.143e+04	-0.40	-9.157e+04
	-0.40	-9.185e+04	-0.41	-9.241e+04	-0.42	-9.352e+04	-0.42	-9.356e+04	-0.42	-9.359e+04	-0.42	-9.366e+04
	-0.42	-9.380e+04	-0.43	-9.408e+04	-0.43	-9.464e+04	-0.45	-9.575e+04	-0.45	-9.579e+04	-0.45	-9.582e+04
	-0.45	-9.589e+04	-0.45	-9.603e+04	-0.45	-9.631e+04	-0.46	-9.687e+04	-0.47	-9.799e+04	-0.47	-9.802e+04
	-0.47	-9.809e+04	-0.48	-9.823e+04	-0.48	-9.851e+04	-0.49	-9.907e+04	-0.50	-1.002e+05	-0.51	-1.013e+05
	-0.53	-1.024e+05	-0.53	-1.025e+05	-0.53	-1.025e+05	-0.53	-1.026e+05	-0.53	-1.027e+05	-0.53	-1.030e+05
	-0.54	-1.035e+05	-0.54	-1.036e+05	-0.54	-1.036e+05	-0.54	-1.037e+05	-0.54	-1.038e+05	-0.55	-1.041e+05
	-0.55	-1.041e+05	-0.55	-1.042e+05	-0.55	-1.042e+05	-0.55	-1.043e+05	-0.55	-1.044e+05	-0.56	-1.047e+05
	-0.57	-1.053e+05	-0.58	-1.064e+05	-0.60	-1.075e+05	-0.60	-1.075e+05	-0.60	-1.076e+05	-0.60	-1.076e+05
	-0.60	-1.078e+05	-0.61	-1.081e+05	-0.61	-1.081e+05	-0.61	-1.081e+05	-0.61	-1.082e+05	-0.61	-1.083e+05
	-0.62	-1.086e+05	-0.63	-1.092e+05	-0.65	-1.103e+05	-0.65	-1.103e+05	-0.65	-1.104e+05	-0.66	-1.104e+05
	-0.66	-1.106e+05	-0.67	-1.109e+05	-0.68	-1.114e+05	-0.70	-1.125e+05	-0.73	-1.136e+05	-0.73	-1.137e+05
	-0.73	-1.137e+05	-0.74	-1.138e+05	-0.74	-1.139e+05	-0.74	-1.140e+05	-0.74	-1.140e+05	-0.75	-1.142e+05
	-0.75	-1.145e+05	-0.77	-1.150e+05	-0.80	-1.161e+05	-0.80	-1.162e+05	-0.80	-1.162e+05	-0.80	-1.163e+05
	-0.81	-1.164e+05	-0.82	-1.167e+05	-0.83	-1.172e+05	-0.83	-1.173e+05	-0.83	-1.173e+05	-0.84	-1.174e+05
	-0.84	-1.175e+05	-0.85	-1.178e+05	-0.87	-1.184e+05	-0.91	-1.195e+05	-0.91	-1.195e+05	-0.92	-1.196e+05
	-0.92	-1.197e+05	-0.93	-1.200e+05	-0.93	-1.200e+05	-0.94	-1.201e+05	-0.94	-1.201e+05	-0.94	-1.203e+05
	-0.96	-1.206e+05	-0.98	-1.211e+05	-0.98	-1.211e+05	-0.98	-1.212e+05	-0.99	-1.213e+05	-0.99	-1.214e+05
	-1.01	-1.217e+05	-1.04	-1.222e+05	-1.04	-1.223e+05	-1.04	-1.223e+05	-1.04	-1.224e+05	-1.05	-1.225e+05
	-1.07	-1.228e+05	-1.07	-1.228e+05	-1.07	-1.229e+05	-1.08	-1.229e+05	-1.09	-1.231e+05	-1.11	-1.233e+05
	-1.11	-1.234e+05	-1.11	-1.234e+05	-1.12	-1.235e+05	-1.13	-1.236e+05	-1.15	-1.239e+05	-1.19	-1.245e+05
	-1.27	-1.256e+05	-1.35	-1.267e+05	-1.35	-1.267e+05	-1.36	-1.268e+05	-1.37	-1.269e+05	-1.39	-1.272e+05
	-1.43	-1.278e+05	-1.51	-1.289e+05	-1.52	-1.289e+05	-1.52	-1.290e+05	-1.53	-1.290e+05	-1.54	-1.292e+05
	-1.56	-1.295e+05	-1.61	-1.300e+05								

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
Cmb	Sp. Dc	Tag. Fb										
	-1.61	-1.300e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
10	0.0	0.0	2.83e-04	69.8	8.49e-04	209.3	1.98e-03	488.4	4.25e-03	1046.5	8.78e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.09	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.14	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.18	4.346e+04	0.18	4.458e+04	0.19	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.22	5.351e+04	0.22	5.463e+04	0.23	5.574e+04
	0.23	5.686e+04	0.24	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.27	6.579e+04	0.27	6.691e+04	0.28	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.472e+04	0.31	7.584e+04
	0.31	7.695e+04	0.32	7.807e+04	0.32	7.919e+04	0.32	7.922e+04	0.32	7.925e+04	0.32	7.932e+04
	0.32	7.946e+04	0.32	7.974e+04	0.33	8.030e+04	0.33	8.142e+04	0.34	8.253e+04	0.34	8.257e+04
	0.34	8.260e+04	0.34	8.267e+04	0.34	8.281e+04	0.34	8.309e+04	0.34	8.365e+04	0.35	8.477e+04
	0.35	8.480e+04	0.35	8.484e+04	0.35	8.491e+04	0.35	8.505e+04	0.35	8.532e+04	0.35	8.536e+04
	0.35	8.539e+04	0.35	8.546e+04	0.35	8.560e+04	0.35	8.588e+04	0.36	8.644e+04	0.36	8.756e+04
	0.37	8.867e+04	0.38	8.979e+04	0.39	9.091e+04	0.39	9.202e+04	0.39	9.206e+04	0.39	9.209e+04
	0.39	9.216e+04	0.39	9.230e+04	0.40	9.258e+04	0.40	9.314e+04	0.41	9.425e+04	0.41	9.537e+04
	0.41	9.541e+04	0.41	9.544e+04	0.41	9.548e+04	0.42	9.555e+04	0.42	9.568e+04	0.42	9.596e+04
	0.42	9.652e+04	0.42	9.656e+04	0.42	9.659e+04	0.43	9.666e+04	0.43	9.680e+04	0.43	9.708e+04
	0.43	9.712e+04	0.43	9.715e+04	0.43	9.722e+04	0.43	9.736e+04	0.44	9.764e+04	0.44	9.767e+04
	0.44	9.771e+04	0.44	9.778e+04	0.44	9.792e+04	0.44	9.820e+04	0.45	9.875e+04	0.46	9.987e+04
	0.48	1.010e+05	0.49	1.021e+05	0.51	1.032e+05	0.52	1.043e+05	0.52	1.044e+05	0.52	1.044e+05
	0.52	1.045e+05	0.52	1.046e+05	0.53	1.049e+05	0.53	1.055e+05	0.55	1.066e+05	0.55	1.066e+05
	0.55	1.066e+05	0.55	1.067e+05	0.55	1.067e+05	0.55	1.069e+05	0.56	1.072e+05	0.57	1.077e+05
	0.57	1.078e+05	0.57	1.078e+05	0.57	1.079e+05	0.57	1.080e+05	0.57	1.080e+05	0.57	1.081e+05
	0.57	1.082e+05	0.58	1.085e+05	0.59	1.091e+05	0.61	1.102e+05	0.63	1.113e+05	0.64	1.124e+05
	0.66	1.135e+05	0.68	1.147e+05	0.70	1.158e+05	0.70	1.158e+05	0.70	1.159e+05	0.71	1.160e+05
	0.71	1.161e+05	0.71	1.161e+05	0.71	1.162e+05	0.71	1.163e+05	0.72	1.166e+05	0.73	1.171e+05
	0.75	1.183e+05	0.77	1.194e+05	0.78	1.194e+05	0.78	1.194e+05	0.78	1.195e+05	0.78	1.195e+05
	0.78	1.197e+05	0.79	1.200e+05	0.80	1.205e+05	0.83	1.216e+05	0.83	1.217e+05	0.83	1.217e+05
	0.84	1.218e+05	0.84	1.219e+05	0.85	1.222e+05	0.85	1.222e+05	0.85	1.223e+05	0.86	1.223e+05
	0.86	1.225e+05	0.87	1.228e+05	0.89	1.233e+05	0.89	1.233e+05	0.89	1.234e+05	0.90	1.235e+05
	0.90	1.236e+05	0.91	1.239e+05	0.94	1.244e+05	0.99	1.255e+05	0.99	1.256e+05	0.99	1.256e+05
	0.99	1.256e+05	0.99	1.257e+05	1.00	1.258e+05	1.00	1.259e+05	1.02	1.262e+05	1.06	1.267e+05
	1.06	1.268e+05	1.06	1.268e+05	1.07	1.269e+05	1.08	1.270e+05	1.10	1.273e+05	1.15	1.278e+05
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.15	1.278e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
11	0.0	0.0	-2.82e-04	-69.8	-8.47e-04	-209.3	-1.98e-03	-488.4	-4.23e-03	-1046.5	-8.75e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.14	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.18	-4.346e+04	-0.18	-4.458e+04	-0.18	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.23	-5.574e+04
	-0.23	-5.686e+04	-0.23	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.27	-6.579e+04	-0.27	-6.691e+04	-0.28	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.479e+04	-0.30	-7.486e+04	-0.30	-7.500e+04	-0.30	-7.528e+04	-0.31	-7.584e+04	-0.31	-7.695e+04
	-0.32	-7.807e+04	-0.32	-7.919e+04	-0.32	-7.922e+04	-0.32	-7.925e+04	-0.32	-7.932e+04	-0.32	-7.946e+04
	-0.32	-7.974e+04	-0.33	-8.030e+04	-0.33	-8.142e+04	-0.34	-8.253e+04	-0.34	-8.365e+04	-0.35	-8.477e+04
	-0.35	-8.480e+04	-0.35	-8.484e+04	-0.35	-8.491e+04	-0.35	-8.505e+04	-0.35	-8.532e+04	-0.35	-8.588e+04
	-0.36	-8.700e+04	-0.36	-8.703e+04	-0.36	-8.707e+04	-0.36	-8.714e+04	-0.36	-8.728e+04	-0.36	-8.756e+04
	-0.37	-8.812e+04	-0.37	-8.923e+04	-0.38	-9.035e+04	-0.38	-9.038e+04	-0.38	-9.042e+04	-0.38	-9.049e+04
	-0.38	-9.063e+04	-0.38	-9.091e+04	-0.38	-9.146e+04	-0.38	-9.150e+04	-0.38	-9.153e+04	-0.39	-9.160e+04
	-0.39	-9.174e+04	-0.39	-9.202e+04	-0.39	-9.258e+04	-0.39	-9.262e+04	-0.39	-9.265e+04	-0.39	-9.272e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.39	-9.286e+04	-0.40	-9.314e+04	-0.40	-9.370e+04	-0.41	-9.481e+04	-0.41	-9.485e+04	-0.41	-9.488e+04
	-0.41	-9.495e+04	-0.41	-9.499e+04	-0.41	-9.502e+04	-0.41	-9.509e+04	-0.41	-9.523e+04	-0.42	-9.551e+04
	-0.42	-9.607e+04	-0.42	-9.610e+04	-0.42	-9.614e+04	-0.42	-9.621e+04	-0.42	-9.635e+04	-0.43	-9.663e+04
	-0.43	-9.718e+04	-0.43	-9.722e+04	-0.43	-9.729e+04	-0.44	-9.743e+04	-0.44	-9.771e+04	-0.45	-9.827e+04
	-0.46	-9.938e+04	-0.47	-1.005e+05	-0.47	-1.005e+05	-0.47	-1.006e+05	-0.47	-1.006e+05	-0.47	-1.008e+05
	-0.48	-1.011e+05	-0.48	-1.016e+05	-0.50	-1.027e+05	-0.51	-1.038e+05	-0.53	-1.050e+05	-0.53	-1.050e+05
	-0.53	-1.050e+05	-0.53	-1.051e+05	-0.53	-1.052e+05	-0.53	-1.055e+05	-0.54	-1.061e+05	-0.54	-1.061e+05
	-0.54	-1.061e+05	-0.54	-1.062e+05	-0.55	-1.064e+05	-0.55	-1.066e+05	-0.56	-1.072e+05	-0.58	-1.083e+05
	-0.58	-1.083e+05	-0.58	-1.084e+05	-0.58	-1.085e+05	-0.58	-1.086e+05	-0.58	-1.089e+05	-0.59	-1.089e+05
	-0.59	-1.090e+05	-0.59	-1.091e+05	-0.59	-1.094e+05	-0.60	-1.100e+05	-0.62	-1.111e+05	-0.62	-1.111e+05
	-0.62	-1.111e+05	-0.63	-1.112e+05	-0.63	-1.113e+05	-0.63	-1.116e+05	-0.65	-1.122e+05	-0.67	-1.133e+05
	-0.67	-1.133e+05	-0.67	-1.134e+05	-0.67	-1.134e+05	-0.68	-1.136e+05	-0.68	-1.139e+05	-0.69	-1.144e+05
	-0.72	-1.155e+05	-0.73	-1.156e+05	-0.73	-1.156e+05	-0.73	-1.157e+05	-0.73	-1.157e+05	-0.73	-1.157e+05
	-0.73	-1.158e+05	-0.74	-1.160e+05	-0.75	-1.162e+05	-0.77	-1.168e+05	-0.77	-1.168e+05	-0.78	-1.169e+05
	-0.78	-1.170e+05	-0.79	-1.173e+05	-0.80	-1.173e+05	-0.80	-1.174e+05	-0.80	-1.175e+05	-0.81	-1.176e+05
	-0.82	-1.179e+05	-0.85	-1.184e+05	-0.85	-1.185e+05	-0.85	-1.186e+05	-0.85	-1.186e+05	-0.86	-1.187e+05
	-0.87	-1.190e+05	-0.90	-1.195e+05	-0.96	-1.207e+05	-0.96	-1.207e+05	-0.96	-1.208e+05	-0.97	-1.209e+05
	-0.99	-1.212e+05	-0.99	-1.212e+05	-0.99	-1.213e+05	-1.00	-1.213e+05	-1.00	-1.215e+05	-1.01	-1.215e+05
	-1.01	-1.215e+05	-1.01	-1.216e+05	-1.02	-1.217e+05	-1.04	-1.220e+05	-1.04	-1.221e+05	-1.04	-1.221e+05
	-1.05	-1.222e+05	-1.06	-1.223e+05	-1.07	-1.226e+05	-1.11	-1.231e+05	-1.19	-1.243e+05	-1.26	-1.254e+05
	-1.34	-1.265e+05	-1.41	-1.276e+05	-1.42	-1.276e+05	-1.42	-1.277e+05	-1.43	-1.277e+05	-1.44	-1.279e+05
	-1.46	-1.282e+05	-1.50	-1.287e+05	-1.59	-1.298e+05	-1.67	-1.310e+05	-1.77	-1.321e+05		
Cmb	Sp. Dc	Tag. Fb										
	-1.77	-1.321e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
12	0.0	0.0	2.82e-04	69.8	8.47e-04	209.3	1.98e-03	488.4	4.23e-03	1046.5	8.75e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.09	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.14	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.18	4.346e+04	0.18	4.458e+04	0.18	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.22	5.351e+04	0.22	5.463e+04	0.23	5.574e+04
	0.23	5.686e+04	0.23	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.27	6.579e+04	0.27	6.691e+04	0.28	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.364e+04	0.30	7.367e+04
	0.30	7.374e+04	0.30	7.388e+04	0.30	7.416e+04	0.30	7.472e+04	0.31	7.584e+04	0.31	7.695e+04
	0.32	7.807e+04	0.32	7.919e+04	0.33	8.030e+04	0.33	8.142e+04	0.34	8.253e+04	0.34	8.365e+04
	0.34	8.477e+04	0.35	8.480e+04	0.35	8.484e+04	0.35	8.491e+04	0.35	8.505e+04	0.35	8.532e+04
	0.35	8.536e+04	0.35	8.539e+04	0.35	8.546e+04	0.35	8.560e+04	0.35	8.588e+04	0.35	8.644e+04
	0.36	8.756e+04	0.36	8.759e+04	0.36	8.766e+04	0.36	8.780e+04	0.36	8.808e+04	0.37	8.864e+04
	0.37	8.975e+04	0.38	9.087e+04	0.38	9.199e+04	0.38	9.202e+04	0.39	9.209e+04	0.39	9.223e+04
	0.39	9.251e+04	0.39	9.307e+04	0.39	9.310e+04	0.39	9.314e+04	0.39	9.321e+04	0.39	9.335e+04
	0.39	9.363e+04	0.40	9.419e+04	0.41	9.530e+04	0.41	9.642e+04	0.41	9.645e+04	0.41	9.649e+04
	0.41	9.656e+04	0.42	9.670e+04	0.42	9.698e+04	0.42	9.753e+04	0.43	9.865e+04	0.43	9.868e+04
	0.43	9.872e+04	0.43	9.879e+04	0.43	9.893e+04	0.43	9.921e+04	0.44	9.977e+04	0.45	1.009e+05
	0.45	1.009e+05	0.45	1.010e+05	0.45	1.010e+05	0.45	1.012e+05	0.45	1.014e+05	0.45	1.015e+05
	0.45	1.015e+05	0.45	1.016e+05	0.46	1.017e+05	0.46	1.020e+05	0.46	1.026e+05	0.48	1.037e+05
	0.49	1.048e+05	0.50	1.059e+05	0.50	1.059e+05	0.50	1.060e+05	0.50	1.060e+05	0.50	1.062e+05
	0.50	1.065e+05	0.51	1.065e+05	0.51	1.065e+05	0.51	1.066e+05	0.51	1.067e+05	0.51	1.070e+05
	0.51	1.071e+05	0.51	1.071e+05	0.51	1.072e+05	0.52	1.073e+05	0.52	1.076e+05	0.53	1.081e+05
	0.55	1.093e+05	0.55	1.093e+05	0.55	1.094e+05	0.55	1.095e+05	0.55	1.098e+05	0.56	1.103e+05
	0.58	1.115e+05	0.58	1.115e+05	0.58	1.116e+05	0.58	1.117e+05	0.59	1.120e+05	0.60	1.125e+05
	0.62	1.136e+05	0.62	1.137e+05	0.62	1.137e+05	0.62	1.138e+05	0.62	1.139e+05	0.62	1.140e+05
	0.62	1.140e+05	0.63	1.142e+05	0.63	1.145e+05	0.64	1.150e+05	0.67	1.161e+05	0.67	1.162e+05
	0.67	1.162e+05	0.67	1.163e+05	0.67	1.164e+05	0.68	1.167e+05	0.70	1.172e+05	0.70	1.173e+05
	0.70	1.173e+05	0.70	1.174e+05	0.70	1.175e+05	0.71	1.178e+05	0.73	1.184e+05	0.73	1.184e+05
	0.73	1.184e+05	0.73	1.185e+05	0.74	1.186e+05	0.75	1.189e+05	0.76	1.195e+05	0.80	1.206e+05
	0.80	1.206e+05	0.80	1.207e+05	0.80	1.207e+05	0.81	1.209e+05	0.82	1.211e+05	0.82	1.212e+05
	0.82	1.212e+05	0.82	1.213e+05	0.83	1.214e+05	0.84	1.217e+05	0.86	1.223e+05	0.86	1.223e+05
	0.86	1.223e+05	0.86	1.224e+05	0.87	1.225e+05	0.88	1.228e+05	0.91	1.234e+05	0.95	1.245e+05
	1.01	1.256e+05	1.01	1.256e+05	1.01	1.257e+05	1.02	1.258e+05	1.02	1.259e+05	1.04	1.262e+05
	1.04	1.262e+05	1.04	1.262e+05	1.05	1.263e+05	1.06	1.265e+05	1.06	1.265e+05	1.06	1.265e+05
	1.06	1.266e+05	1.07	1.266e+05	1.08	1.268e+05						
Cmb	Sp. Dc	Tag. Fb										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.0	0.0										
	1.08	1.268e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
13	0.0	0.0	-3.38e-04	-69.8	-1.01e-03	-209.3	-2.37e-03	-488.4	-5.07e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.06	-1.333e+04	-0.07	-1.444e+04	-0.08	-1.556e+04
	-0.08	-1.667e+04	-0.09	-1.779e+04	-0.09	-1.891e+04	-0.10	-2.002e+04	-0.10	-2.114e+04	-0.11	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.12	-2.560e+04	-0.13	-2.672e+04	-0.13	-2.784e+04	-0.14	-2.895e+04
	-0.15	-3.007e+04	-0.15	-3.119e+04	-0.16	-3.230e+04	-0.16	-3.342e+04	-0.17	-3.453e+04	-0.17	-3.565e+04
	-0.18	-3.677e+04	-0.18	-3.788e+04	-0.19	-3.900e+04	-0.19	-4.012e+04	-0.20	-4.123e+04	-0.21	-4.235e+04
	-0.21	-4.346e+04	-0.22	-4.458e+04	-0.22	-4.570e+04	-0.23	-4.681e+04	-0.23	-4.793e+04	-0.24	-4.905e+04
	-0.24	-5.016e+04	-0.25	-5.128e+04	-0.25	-5.239e+04	-0.26	-5.351e+04	-0.27	-5.463e+04	-0.27	-5.574e+04
	-0.28	-5.686e+04	-0.28	-5.798e+04	-0.29	-5.909e+04	-0.29	-6.021e+04	-0.30	-6.132e+04	-0.30	-6.244e+04
	-0.31	-6.356e+04	-0.31	-6.467e+04	-0.32	-6.579e+04	-0.32	-6.691e+04	-0.33	-6.802e+04	-0.34	-6.914e+04
	-0.34	-7.026e+04	-0.34	-7.029e+04	-0.34	-7.032e+04	-0.34	-7.039e+04	-0.34	-7.053e+04	-0.34	-7.081e+04
	-0.35	-7.137e+04	-0.35	-7.249e+04	-0.36	-7.360e+04	-0.37	-7.472e+04	-0.37	-7.584e+04	-0.37	-7.587e+04
	-0.37	-7.591e+04	-0.37	-7.598e+04	-0.38	-7.612e+04	-0.38	-7.639e+04	-0.38	-7.695e+04	-0.39	-7.807e+04
	-0.39	-7.810e+04	-0.39	-7.814e+04	-0.39	-7.821e+04	-0.39	-7.835e+04	-0.39	-7.863e+04	-0.40	-7.919e+04
	-0.41	-8.030e+04	-0.41	-8.034e+04	-0.41	-8.037e+04	-0.41	-8.044e+04	-0.41	-8.058e+04	-0.41	-8.086e+04
	-0.41	-8.142e+04	-0.42	-8.253e+04	-0.43	-8.257e+04	-0.43	-8.260e+04	-0.43	-8.267e+04	-0.43	-8.281e+04
	-0.43	-8.309e+04	-0.43	-8.313e+04	-0.43	-8.316e+04	-0.43	-8.323e+04	-0.43	-8.337e+04	-0.44	-8.365e+04
	-0.44	-8.421e+04	-0.45	-8.532e+04	-0.47	-8.644e+04	-0.47	-8.648e+04	-0.47	-8.651e+04	-0.47	-8.658e+04
	-0.47	-8.672e+04	-0.47	-8.700e+04	-0.48	-8.756e+04	-0.49	-8.867e+04	-0.49	-8.871e+04	-0.49	-8.874e+04
	-0.49	-8.881e+04	-0.50	-8.895e+04	-0.50	-8.923e+04	-0.51	-8.979e+04	-0.52	-9.091e+04	-0.53	-9.202e+04
	-0.54	-9.206e+04	-0.54	-9.209e+04	-0.54	-9.216e+04	-0.54	-9.230e+04	-0.54	-9.258e+04	-0.54	-9.262e+04
	-0.54	-9.265e+04	-0.55	-9.272e+04	-0.55	-9.286e+04	-0.55	-9.289e+04	-0.55	-9.293e+04	-0.55	-9.300e+04
	-0.56	-9.314e+04	-0.56	-9.342e+04	-0.57	-9.398e+04	-0.60	-9.509e+04	-0.62	-9.621e+04	-0.65	-9.732e+04
	-0.65	-9.736e+04	-0.65	-9.739e+04	-0.65	-9.746e+04	-0.66	-9.760e+04	-0.66	-9.788e+04	-0.68	-9.844e+04
	-0.70	-9.956e+04	-0.73	-1.007e+05	-0.73	-1.007e+05	-0.73	-1.008e+05	-0.74	-1.009e+05	-0.74	-1.012e+05
	-0.76	-1.018e+05	-0.76	-1.018e+05	-0.76	-1.019e+05	-0.76	-1.020e+05	-0.77	-1.023e+05	-0.79	-1.028e+05
	-0.79	-1.029e+05	-0.79	-1.029e+05	-0.79	-1.030e+05	-0.80	-1.031e+05	-0.80	-1.032e+05	-0.80	-1.032e+05
	-0.80	-1.033e+05	-0.80	-1.034e+05	-0.81	-1.037e+05	-0.83	-1.042e+05	-0.87	-1.053e+05	-0.87	-1.054e+05
	-0.87	-1.055e+05	-0.88	-1.056e+05	-0.89	-1.059e+05	-0.91	-1.064e+05	-0.96	-1.075e+05	-0.96	-1.076e+05
	-0.96	-1.076e+05	-0.97	-1.077e+05	-0.97	-1.078e+05	-0.99	-1.081e+05	-1.02	-1.087e+05	-1.09	-1.098e+05
	-1.09	-1.098e+05	-1.10	-1.098e+05	-1.10	-1.099e+05	-1.12	-1.101e+05				
Cmb	Sp. Dc	Tag. Fb										
	-1.12	-1.101e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
14	0.0	0.0	3.38e-04	69.8	1.01e-03	209.3	2.37e-03	488.4	5.07e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.08	1.556e+04
	0.08	1.667e+04	0.09	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.14	2.784e+04	0.14	2.895e+04
	0.15	3.007e+04	0.15	3.119e+04	0.16	3.230e+04	0.16	3.342e+04	0.17	3.453e+04	0.17	3.565e+04
	0.18	3.677e+04	0.18	3.788e+04	0.19	3.900e+04	0.19	4.012e+04	0.20	4.123e+04	0.21	4.235e+04
	0.21	4.346e+04	0.22	4.458e+04	0.22	4.570e+04	0.23	4.681e+04	0.23	4.793e+04	0.24	4.905e+04
	0.24	5.016e+04	0.25	5.128e+04	0.25	5.239e+04	0.26	5.351e+04	0.27	5.463e+04	0.27	5.574e+04
	0.28	5.686e+04	0.28	5.798e+04	0.29	5.909e+04	0.29	6.021e+04	0.30	6.132e+04	0.30	6.244e+04
	0.31	6.356e+04	0.31	6.467e+04	0.32	6.579e+04	0.33	6.691e+04	0.33	6.802e+04	0.34	6.914e+04
	0.34	7.026e+04	0.35	7.137e+04	0.35	7.249e+04	0.36	7.360e+04	0.36	7.364e+04	0.36	7.367e+04
	0.36	7.374e+04	0.36	7.388e+04	0.36	7.416e+04	0.37	7.472e+04	0.37	7.584e+04	0.38	7.695e+04
	0.39	7.807e+04	0.40	7.919e+04	0.40	7.922e+04	0.40	7.925e+04	0.40	7.932e+04	0.40	7.946e+04
	0.40	7.950e+04	0.40	7.953e+04	0.40	7.960e+04	0.40	7.974e+04	0.40	8.002e+04	0.41	8.058e+04
	0.42	8.170e+04	0.43	8.281e+04	0.44	8.393e+04	0.45	8.505e+04	0.46	8.616e+04	0.46	8.620e+04
	0.46	8.623e+04	0.46	8.630e+04	0.46	8.644e+04	0.46	8.672e+04	0.47	8.728e+04	0.47	8.731e+04
	0.47	8.735e+04	0.47	8.742e+04	0.47	8.756e+04	0.48	8.784e+04	0.48	8.839e+04	0.50	8.951e+04
	0.50	8.955e+04	0.50	8.958e+04	0.50	8.965e+04	0.50	8.979e+04	0.51	9.007e+04	0.52	9.063e+04
	0.54	9.174e+04	0.57	9.286e+04	0.57	9.289e+04	0.57	9.293e+04	0.57	9.300e+04	0.57	9.314e+04
	0.58	9.342e+04	0.59	9.398e+04	0.62	9.509e+04	0.62	9.513e+04	0.62	9.520e+04	0.63	9.534e+04
	0.63	9.562e+04	0.65	9.617e+04	0.67	9.729e+04	0.70	9.841e+04	0.70	9.844e+04	0.70	9.851e+04
	0.71	9.865e+04	0.72	9.893e+04	0.73	9.949e+04	0.76	1.006e+05	0.76	1.006e+05	0.76	1.007e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.77	1.008e+05	0.77	1.009e+05	0.77	1.010e+05	0.77	1.011e+05	0.77	1.011e+05	0.77	1.012e+05
	0.78	1.012e+05	0.78	1.013e+05	0.78	1.014e+05	0.79	1.017e+05	0.81	1.022e+05	0.85	1.034e+05
	0.85	1.034e+05	0.85	1.034e+05	0.85	1.035e+05	0.85	1.036e+05	0.86	1.039e+05	0.88	1.045e+05
	0.92	1.056e+05	0.93	1.056e+05	0.93	1.057e+05	0.93	1.057e+05	0.94	1.059e+05	0.95	1.061e+05
	0.97	1.067e+05	0.97	1.067e+05	0.97	1.068e+05	0.98	1.068e+05	0.98	1.070e+05	1.00	1.073e+05
	1.02	1.078e+05	1.03	1.079e+05	1.03	1.079e+05	1.03	1.080e+05	1.04	1.081e+05	1.05	1.084e+05
	1.08	1.089e+05	1.09	1.090e+05	1.09	1.090e+05	1.09	1.090e+05	1.10	1.091e+05	1.10	1.091e+05
	1.10	1.092e+05	1.11	1.093e+05	1.12	1.094e+05	1.15	1.097e+05	1.19	1.102e+05	1.29	1.113e+05
	1.30	1.114e+05										
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.30	1.114e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
15	0.0	0.0	-3.42e-04	-69.8	-1.03e-03	-209.3	-2.39e-03	-488.4	-5.13e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.07	-1.333e+04	-0.07	-1.444e+04	-0.08	-1.556e+04
	-0.08	-1.667e+04	-0.09	-1.779e+04	-0.09	-1.891e+04	-0.10	-2.002e+04	-0.10	-2.114e+04	-0.11	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.13	-2.560e+04	-0.13	-2.672e+04	-0.14	-2.784e+04	-0.14	-2.895e+04
	-0.15	-3.007e+04	-0.15	-3.119e+04	-0.16	-3.230e+04	-0.16	-3.342e+04	-0.17	-3.453e+04	-0.17	-3.565e+04
	-0.18	-3.677e+04	-0.19	-3.788e+04	-0.19	-3.900e+04	-0.20	-4.012e+04	-0.20	-4.123e+04	-0.21	-4.235e+04
	-0.21	-4.346e+04	-0.22	-4.458e+04	-0.22	-4.570e+04	-0.23	-4.681e+04	-0.24	-4.793e+04	-0.24	-4.905e+04
	-0.25	-5.016e+04	-0.25	-5.128e+04	-0.26	-5.239e+04	-0.26	-5.351e+04	-0.27	-5.463e+04	-0.27	-5.574e+04
	-0.28	-5.686e+04	-0.28	-5.798e+04	-0.29	-5.909e+04	-0.30	-6.021e+04	-0.30	-6.132e+04	-0.31	-6.244e+04
	-0.31	-6.356e+04	-0.32	-6.467e+04	-0.32	-6.579e+04	-0.33	-6.691e+04	-0.33	-6.802e+04	-0.34	-6.914e+04
	-0.34	-6.917e+04	-0.34	-6.921e+04	-0.34	-6.928e+04	-0.34	-6.942e+04	-0.34	-6.970e+04	-0.35	-7.026e+04
	-0.35	-7.137e+04	-0.36	-7.249e+04	-0.37	-7.360e+04	-0.37	-7.472e+04	-0.37	-7.475e+04	-0.37	-7.479e+04
	-0.37	-7.486e+04	-0.37	-7.500e+04	-0.38	-7.528e+04	-0.38	-7.584e+04	-0.39	-7.695e+04	-0.40	-7.807e+04
	-0.40	-7.810e+04	-0.40	-7.814e+04	-0.40	-7.821e+04	-0.40	-7.835e+04	-0.40	-7.863e+04	-0.40	-7.919e+04
	-0.40	-7.922e+04	-0.40	-7.925e+04	-0.41	-7.932e+04	-0.41	-7.946e+04	-0.41	-7.974e+04	-0.41	-8.030e+04
	-0.42	-8.142e+04	-0.42	-8.145e+04	-0.42	-8.149e+04	-0.42	-8.156e+04	-0.43	-8.170e+04	-0.43	-8.173e+04
	-0.43	-8.177e+04	-0.43	-8.184e+04	-0.43	-8.198e+04	-0.43	-8.225e+04	-0.44	-8.281e+04	-0.45	-8.393e+04
	-0.46	-8.505e+04	-0.47	-8.616e+04	-0.47	-8.620e+04	-0.47	-8.623e+04	-0.48	-8.630e+04	-0.48	-8.644e+04
	-0.48	-8.672e+04	-0.48	-8.675e+04	-0.48	-8.679e+04	-0.48	-8.686e+04	-0.48	-8.700e+04	-0.49	-8.728e+04
	-0.49	-8.784e+04	-0.51	-8.895e+04	-0.52	-9.007e+04	-0.54	-9.119e+04	-0.54	-9.122e+04	-0.54	-9.129e+04
	-0.54	-9.143e+04	-0.54	-9.146e+04	-0.54	-9.150e+04	-0.54	-9.157e+04	-0.54	-9.160e+04	-0.55	-9.164e+04
	-0.55	-9.167e+04	-0.55	-9.174e+04	-0.55	-9.188e+04	-0.56	-9.216e+04	-0.56	-9.220e+04	-0.56	-9.227e+04
	-0.56	-9.241e+04	-0.57	-9.269e+04	-0.58	-9.324e+04	-0.61	-9.436e+04	-0.63	-9.548e+04	-0.66	-9.659e+04
	-0.66	-9.663e+04	-0.66	-9.666e+04	-0.66	-9.673e+04	-0.66	-9.687e+04	-0.67	-9.715e+04	-0.68	-9.771e+04
	-0.71	-9.882e+04	-0.74	-9.994e+04	-0.74	-9.998e+04	-0.74	-1.000e+05	-0.74	-1.002e+05	-0.75	-1.005e+05
	-0.77	-1.010e+05	-0.77	-1.011e+05	-0.77	-1.011e+05	-0.77	-1.012e+05	-0.77	-1.013e+05	-0.78	-1.016e+05
	-0.78	-1.016e+05	-0.78	-1.017e+05	-0.78	-1.017e+05	-0.79	-1.019e+05	-0.80	-1.021e+05	-0.81	-1.027e+05
	-0.81	-1.027e+05	-0.82	-1.028e+05	-0.82	-1.028e+05	-0.82	-1.030e+05	-0.83	-1.033e+05	-0.85	-1.038e+05
	-0.85	-1.038e+05	-0.85	-1.039e+05	-0.86	-1.041e+05	-0.87	-1.043e+05	-0.89	-1.049e+05	-0.93	-1.060e+05
	-0.93	-1.060e+05	-0.94	-1.061e+05	-0.94	-1.061e+05	-0.95	-1.063e+05	-0.95	-1.063e+05	-0.95	-1.064e+05
	-0.95	-1.064e+05	-0.96	-1.066e+05	-0.97	-1.068e+05	-1.00	-1.074e+05	-1.06	-1.085e+05	-1.14	-1.096e+05
	-1.15	-1.097e+05	-1.15	-1.097e+05	-1.15	-1.098e+05	-1.17	-1.099e+05	-1.19	-1.102e+05	-1.24	-1.108e+05
	-1.25	-1.108e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.25	-1.108e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
16	0.0	0.0	3.42e-04	69.8	1.03e-03	209.3	2.39e-03	488.4	5.13e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.07	1.333e+04	0.07	1.444e+04	0.08	1.556e+04
	0.08	1.667e+04	0.09	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.13	2.560e+04	0.13	2.672e+04	0.14	2.784e+04	0.14	2.895e+04
	0.15	3.007e+04	0.15	3.119e+04	0.16	3.230e+04	0.16	3.342e+04	0.17	3.453e+04	0.18	3.565e+04
	0.18	3.677e+04	0.19	3.788e+04	0.19	3.900e+04	0.20	4.012e+04	0.20	4.123e+04	0.21	4.235e+04
	0.21	4.346e+04	0.22	4.458e+04	0.22	4.570e+04	0.23	4.681e+04	0.24	4.793e+04	0.24	4.905e+04
	0.25	5.016e+04	0.25	5.128e+04	0.26	5.239e+04	0.26	5.351e+04	0.27	5.463e+04	0.27	5.574e+04
	0.28	5.686e+04	0.28	5.798e+04	0.29	5.909e+04	0.30	6.021e+04	0.30	6.132e+04	0.31	6.244e+04
	0.31	6.356e+04	0.32	6.467e+04	0.32	6.579e+04	0.33	6.691e+04	0.33	6.802e+04	0.34	6.914e+04
	0.35	7.026e+04	0.35	7.137e+04	0.36	7.249e+04	0.36	7.252e+04	0.36	7.256e+04	0.36	7.263e+04
	0.36	7.277e+04	0.36	7.305e+04	0.36	7.360e+04	0.37	7.472e+04	0.38	7.584e+04	0.39	7.695e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.39	7.807e+04	0.40	7.919e+04	0.40	7.922e+04	0.40	7.925e+04	0.41	7.932e+04	0.41	7.946e+04
	0.41	7.974e+04	0.41	8.030e+04	0.42	8.142e+04	0.43	8.253e+04	0.44	8.365e+04	0.45	8.477e+04
	0.45	8.480e+04	0.45	8.484e+04	0.45	8.491e+04	0.46	8.505e+04	0.46	8.532e+04	0.46	8.536e+04
	0.46	8.543e+04	0.46	8.557e+04	0.46	8.585e+04	0.46	8.588e+04	0.47	8.592e+04	0.47	8.599e+04
	0.47	8.613e+04	0.47	8.641e+04	0.48	8.696e+04	0.49	8.808e+04	0.49	8.812e+04	0.49	8.815e+04
	0.49	8.822e+04	0.50	8.836e+04	0.50	8.864e+04	0.51	8.920e+04	0.53	9.031e+04	0.56	9.143e+04
	0.56	9.146e+04	0.56	9.150e+04	0.56	9.157e+04	0.56	9.171e+04	0.56	9.174e+04	0.57	9.178e+04
	0.57	9.185e+04	0.57	9.199e+04	0.58	9.227e+04	0.59	9.282e+04	0.62	9.394e+04	0.62	9.398e+04
	0.62	9.405e+04	0.62	9.419e+04	0.63	9.446e+04	0.64	9.502e+04	0.67	9.614e+04	0.70	9.725e+04
	0.70	9.729e+04	0.70	9.732e+04	0.70	9.739e+04	0.71	9.753e+04	0.71	9.781e+04	0.73	9.837e+04
	0.76	9.949e+04	0.79	1.006e+05	0.79	1.006e+05	0.79	1.007e+05	0.79	1.007e+05	0.80	1.009e+05
	0.81	1.012e+05	0.82	1.017e+05	0.86	1.028e+05	0.86	1.029e+05	0.86	1.029e+05	0.87	1.030e+05
	0.87	1.031e+05	0.88	1.034e+05	0.90	1.040e+05	0.94	1.051e+05	0.95	1.051e+05	0.95	1.051e+05
	0.95	1.052e+05	0.96	1.053e+05	0.97	1.056e+05	0.99	1.062e+05	0.99	1.062e+05	1.00	1.063e+05
	1.00	1.064e+05	1.02	1.067e+05	1.05	1.073e+05	1.05	1.073e+05	1.05	1.073e+05	1.05	1.074e+05
	1.06	1.075e+05	1.07	1.078e+05	1.11	1.084e+05	1.11	1.084e+05	1.11	1.085e+05	1.11	1.085e+05
	1.12	1.085e+05	1.12	1.086e+05	1.13	1.087e+05	1.15	1.090e+05	1.19	1.096e+05	1.28	1.107e+05
	1.28	1.107e+05	1.28	1.108e+05	1.29	1.108e+05	1.29	1.109e+05				
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.29	1.109e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
17	0.0	0.0	-2.81e-04	-69.8	-8.43e-04	-209.3	-1.97e-03	-488.4	-4.21e-03	-1046.5	-8.71e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.13	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.17	-4.346e+04	-0.18	-4.458e+04	-0.18	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.22	-5.574e+04
	-0.23	-5.686e+04	-0.23	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.26	-6.579e+04	-0.27	-6.691e+04	-0.27	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.482e+04	-0.30	-7.496e+04	-0.30	-7.524e+04	-0.31	-7.580e+04	-0.31	-7.584e+04	-0.31	-7.587e+04
	-0.31	-7.594e+04	-0.31	-7.608e+04	-0.31	-7.636e+04	-0.31	-7.692e+04	-0.32	-7.803e+04	-0.32	-7.915e+04
	-0.33	-8.027e+04	-0.33	-8.138e+04	-0.33	-8.142e+04	-0.33	-8.149e+04	-0.33	-8.163e+04	-0.34	-8.191e+04
	-0.34	-8.246e+04	-0.34	-8.358e+04	-0.35	-8.470e+04	-0.36	-8.581e+04	-0.36	-8.585e+04	-0.36	-8.588e+04
	-0.36	-8.595e+04	-0.36	-8.609e+04	-0.36	-8.637e+04	-0.36	-8.693e+04	-0.37	-8.805e+04	-0.38	-8.916e+04
	-0.39	-9.028e+04	-0.39	-9.031e+04	-0.39	-9.035e+04	-0.39	-9.042e+04	-0.39	-9.056e+04	-0.39	-9.084e+04
	-0.39	-9.087e+04	-0.39	-9.091e+04	-0.39	-9.094e+04	-0.39	-9.101e+04	-0.40	-9.115e+04	-0.40	-9.143e+04
	-0.40	-9.199e+04	-0.41	-9.310e+04	-0.43	-9.422e+04	-0.43	-9.425e+04	-0.43	-9.429e+04	-0.43	-9.436e+04
	-0.43	-9.450e+04	-0.43	-9.478e+04	-0.44	-9.534e+04	-0.45	-9.645e+04	-0.45	-9.649e+04	-0.45	-9.652e+04
	-0.45	-9.659e+04	-0.45	-9.673e+04	-0.46	-9.701e+04	-0.46	-9.757e+04	-0.48	-9.868e+04	-0.49	-9.980e+04
	-0.49	-9.984e+04	-0.49	-9.991e+04	-0.49	-1.000e+05	-0.50	-1.003e+05	-0.50	-1.009e+05	-0.52	-1.020e+05
	-0.52	-1.020e+05	-0.52	-1.021e+05	-0.52	-1.021e+05	-0.52	-1.023e+05	-0.52	-1.026e+05	-0.53	-1.031e+05
	-0.55	-1.042e+05	-0.56	-1.053e+05	-0.56	-1.054e+05	-0.56	-1.054e+05	-0.56	-1.055e+05	-0.56	-1.056e+05
	-0.57	-1.059e+05	-0.58	-1.065e+05	-0.59	-1.076e+05	-0.61	-1.087e+05	-0.61	-1.087e+05	-0.62	-1.088e+05
	-0.62	-1.088e+05	-0.62	-1.090e+05	-0.62	-1.093e+05	-0.64	-1.098e+05	-0.66	-1.109e+05	-0.66	-1.110e+05
	-0.66	-1.110e+05	-0.66	-1.111e+05	-0.67	-1.112e+05	-0.67	-1.115e+05	-0.69	-1.120e+05	-0.71	-1.132e+05
	-0.74	-1.143e+05	-0.77	-1.154e+05	-0.77	-1.154e+05	-0.77	-1.155e+05	-0.77	-1.155e+05	-0.77	-1.157e+05
	-0.78	-1.160e+05	-0.79	-1.165e+05	-0.83	-1.176e+05	-0.83	-1.177e+05	-0.83	-1.177e+05	-0.83	-1.178e+05
	-0.83	-1.179e+05	-0.84	-1.182e+05	-0.86	-1.187e+05	-0.86	-1.188e+05	-0.86	-1.188e+05	-0.87	-1.189e+05
	-0.87	-1.190e+05	-0.88	-1.193e+05	-0.90	-1.199e+05	-0.94	-1.210e+05	-0.94	-1.210e+05	-0.94	-1.210e+05
	-0.95	-1.211e+05	-0.95	-1.213e+05	-0.96	-1.215e+05	-0.97	-1.216e+05	-0.97	-1.216e+05	-0.98	-1.218e+05
	-0.99	-1.221e+05	-1.01	-1.226e+05	-1.02	-1.226e+05	-1.02	-1.227e+05	-1.02	-1.228e+05	-1.03	-1.229e+05
	-1.04	-1.232e+05	-1.04	-1.232e+05	-1.04	-1.232e+05	-1.05	-1.233e+05	-1.05	-1.233e+05	-1.06	-1.235e+05
	-1.07	-1.238e+05	-1.08	-1.238e+05	-1.08	-1.238e+05	-1.08	-1.239e+05	-1.09	-1.240e+05	-1.11	-1.243e+05
	-1.15	-1.249e+05	-1.15	-1.249e+05	-1.15	-1.250e+05	-1.16	-1.250e+05	-1.17	-1.252e+05	-1.19	-1.254e+05
	-1.23	-1.260e+05	-1.31	-1.271e+05	-1.31	-1.271e+05	-1.32	-1.272e+05	-1.33	-1.274e+05	-1.35	-1.276e+05
	-1.39	-1.282e+05	-1.47	-1.293e+05	-1.57	-1.304e+05						
Cmb	Sp. Dc	Tag. Fb										
	-1.57	-1.304e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.55	-1.073e+05	-0.55	-1.074e+05	-0.55	-1.074e+05	-0.56	-1.076e+05	-0.56	-1.079e+05	-0.57	-1.084e+05
	-0.59	-1.095e+05	-0.59	-1.096e+05	-0.59	-1.096e+05	-0.59	-1.097e+05	-0.59	-1.098e+05	-0.59	-1.101e+05
	-0.60	-1.106e+05	-0.60	-1.107e+05	-0.60	-1.107e+05	-0.61	-1.108e+05	-0.61	-1.109e+05	-0.61	-1.112e+05
	-0.62	-1.118e+05	-0.64	-1.129e+05	-0.65	-1.129e+05	-0.65	-1.130e+05	-0.65	-1.130e+05	-0.65	-1.132e+05
	-0.66	-1.134e+05	-0.67	-1.140e+05	-0.69	-1.151e+05	-0.69	-1.151e+05	-0.69	-1.152e+05	-0.69	-1.153e+05
	-0.70	-1.154e+05	-0.70	-1.157e+05	-0.71	-1.157e+05	-0.71	-1.157e+05	-0.71	-1.158e+05	-0.71	-1.160e+05
	-0.72	-1.162e+05	-0.72	-1.163e+05	-0.72	-1.163e+05	-0.73	-1.164e+05	-0.73	-1.165e+05	-0.74	-1.168e+05
	-0.76	-1.173e+05	-0.81	-1.185e+05	-0.81	-1.185e+05	-0.81	-1.185e+05	-0.81	-1.186e+05	-0.82	-1.187e+05
	-0.83	-1.190e+05	-0.86	-1.196e+05	-0.86	-1.196e+05	-0.86	-1.196e+05	-0.87	-1.197e+05	-0.87	-1.199e+05
	-0.89	-1.201e+05	-0.91	-1.207e+05	-0.97	-1.218e+05	-0.97	-1.218e+05	-0.98	-1.219e+05	-0.98	-1.221e+05
	-1.00	-1.223e+05	-1.00	-1.224e+05	-1.00	-1.224e+05	-1.00	-1.224e+05	-1.01	-1.225e+05	-1.01	-1.225e+05
	-1.02	-1.227e+05	-1.04	-1.230e+05	-1.04	-1.230e+05	-1.04	-1.230e+05	-1.05	-1.231e+05	-1.05	-1.232e+05
	-1.07	-1.235e+05	-1.11	-1.241e+05	-1.18	-1.252e+05	-1.26	-1.263e+05	-1.33	-1.274e+05	-1.34	-1.275e+05
	-1.34	-1.275e+05	-1.34	-1.276e+05	-1.35	-1.277e+05	-1.37	-1.280e+05	-1.41	-1.285e+05	-1.50	-1.297e+05
	-1.50	-1.297e+05	-1.51	-1.298e+05	-1.52	-1.299e+05	-1.54	-1.302e+05	-1.58	-1.307e+05	-1.66	-1.319e+05
	-1.79	-1.330e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.79	-1.330e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
20	0.0	0.0	2.80e-04	69.8	8.40e-04	209.3	1.96e-03	488.4	4.20e-03	1046.5	8.68e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.08	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.13	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.17	4.346e+04	0.18	4.458e+04	0.18	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.21	5.351e+04	0.22	5.463e+04	0.22	5.574e+04
	0.23	5.686e+04	0.23	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.26	6.579e+04	0.27	6.691e+04	0.27	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.472e+04	0.30	7.584e+04
	0.30	7.587e+04	0.30	7.594e+04	0.31	7.608e+04	0.31	7.636e+04	0.31	7.692e+04	0.31	7.803e+04
	0.32	7.915e+04	0.32	8.027e+04	0.33	8.138e+04	0.33	8.250e+04	0.34	8.362e+04	0.34	8.473e+04
	0.34	8.477e+04	0.34	8.480e+04	0.34	8.487e+04	0.34	8.501e+04	0.34	8.529e+04	0.35	8.585e+04
	0.35	8.588e+04	0.35	8.592e+04	0.35	8.599e+04	0.35	8.613e+04	0.35	8.616e+04	0.35	8.620e+04
	0.35	8.627e+04	0.35	8.641e+04	0.35	8.669e+04	0.35	8.724e+04	0.36	8.836e+04	0.37	8.948e+04
	0.37	9.059e+04	0.38	9.171e+04	0.38	9.174e+04	0.38	9.181e+04	0.38	9.195e+04	0.38	9.223e+04
	0.39	9.279e+04	0.39	9.391e+04	0.39	9.394e+04	0.39	9.398e+04	0.39	9.405e+04	0.40	9.419e+04
	0.40	9.446e+04	0.40	9.502e+04	0.41	9.614e+04	0.42	9.725e+04	0.42	9.729e+04	0.42	9.732e+04
	0.42	9.739e+04	0.42	9.753e+04	0.42	9.781e+04	0.42	9.837e+04	0.43	9.949e+04	0.43	9.952e+04
	0.43	9.959e+04	0.43	9.973e+04	0.44	1.000e+05	0.44	1.006e+05	0.45	1.017e+05	0.45	1.017e+05
	0.45	1.018e+05	0.45	1.018e+05	0.45	1.019e+05	0.45	1.019e+05	0.45	1.020e+05	0.45	1.021e+05
	0.46	1.024e+05	0.46	1.029e+05	0.47	1.041e+05	0.48	1.052e+05	0.50	1.063e+05	0.50	1.063e+05
	0.50	1.064e+05	0.50	1.064e+05	0.50	1.066e+05	0.50	1.068e+05	0.50	1.069e+05	0.50	1.069e+05
	0.51	1.070e+05	0.51	1.071e+05	0.51	1.072e+05	0.51	1.072e+05	0.51	1.073e+05	0.51	1.074e+05
	0.52	1.077e+05	0.52	1.082e+05	0.54	1.094e+05	0.54	1.094e+05	0.54	1.094e+05	0.54	1.095e+05
	0.54	1.096e+05	0.55	1.099e+05	0.56	1.105e+05	0.57	1.116e+05	0.59	1.127e+05	0.59	1.127e+05
	0.59	1.128e+05	0.59	1.128e+05	0.59	1.129e+05	0.60	1.131e+05	0.60	1.133e+05	0.61	1.139e+05
	0.63	1.150e+05	0.63	1.150e+05	0.63	1.151e+05	0.63	1.151e+05	0.63	1.153e+05	0.64	1.156e+05
	0.65	1.161e+05	0.65	1.162e+05	0.65	1.162e+05	0.65	1.163e+05	0.66	1.164e+05	0.66	1.164e+05
	0.66	1.165e+05	0.66	1.165e+05	0.66	1.167e+05	0.67	1.170e+05	0.67	1.170e+05	0.67	1.170e+05
	0.67	1.171e+05	0.68	1.172e+05	0.68	1.175e+05	0.70	1.181e+05	0.73	1.192e+05	0.73	1.192e+05
	0.73	1.193e+05	0.73	1.193e+05	0.74	1.195e+05	0.74	1.195e+05	0.74	1.195e+05	0.74	1.196e+05
	0.74	1.198e+05	0.75	1.200e+05	0.77	1.206e+05	0.81	1.217e+05	0.81	1.217e+05	0.81	1.218e+05
	0.81	1.218e+05	0.81	1.220e+05	0.82	1.223e+05	0.84	1.228e+05	0.84	1.229e+05	0.85	1.229e+05
	0.85	1.230e+05	0.85	1.231e+05	0.87	1.234e+05	0.89	1.239e+05	0.89	1.240e+05	0.89	1.240e+05
	0.89	1.241e+05	0.90	1.242e+05	0.91	1.245e+05	0.94	1.251e+05	0.94	1.251e+05	0.94	1.251e+05
	0.94	1.252e+05	0.95	1.253e+05	0.96	1.256e+05	0.99	1.262e+05	1.06	1.273e+05	1.07	1.273e+05
	1.07	1.274e+05	1.07	1.274e+05	1.09	1.276e+05						
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.09	1.276e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
21	0.0	0.0	-3.28e-04	-69.8	-9.84e-04	-209.3	-2.30e-03	-488.4	-4.92e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.06	-1.333e+04	-0.07	-1.444e+04	-0.07	-1.556e+04
	-0.08	-1.667e+04	-0.08	-1.779e+04	-0.09	-1.891e+04	-0.09	-2.002e+04	-0.10	-2.114e+04	-0.10	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.12	-2.560e+04	-0.13	-2.672e+04	-0.13	-2.784e+04	-0.14	-2.895e+04
	-0.14	-3.007e+04	-0.15	-3.119e+04	-0.15	-3.230e+04	-0.16	-3.342e+04	-0.16	-3.453e+04	-0.17	-3.565e+04
	-0.17	-3.677e+04	-0.18	-3.788e+04	-0.18	-3.900e+04	-0.19	-4.012e+04	-0.19	-4.123e+04	-0.20	-4.235e+04
	-0.20	-4.346e+04	-0.21	-4.458e+04	-0.22	-4.570e+04	-0.22	-4.681e+04	-0.23	-4.793e+04	-0.23	-4.905e+04
	-0.24	-5.016e+04	-0.24	-5.128e+04	-0.25	-5.239e+04	-0.25	-5.351e+04	-0.26	-5.463e+04	-0.26	-5.574e+04
	-0.27	-5.686e+04	-0.27	-5.798e+04	-0.28	-5.909e+04	-0.28	-6.021e+04	-0.29	-6.132e+04	-0.29	-6.244e+04
	-0.30	-6.356e+04	-0.30	-6.467e+04	-0.31	-6.579e+04	-0.32	-6.691e+04	-0.32	-6.802e+04	-0.33	-6.914e+04
	-0.33	-7.026e+04	-0.34	-7.137e+04	-0.34	-7.249e+04	-0.34	-7.252e+04	-0.34	-7.256e+04	-0.34	-7.263e+04
	-0.34	-7.277e+04	-0.34	-7.305e+04	-0.35	-7.360e+04	-0.35	-7.472e+04	-0.36	-7.584e+04	-0.36	-7.587e+04
	-0.36	-7.591e+04	-0.36	-7.598e+04	-0.36	-7.612e+04	-0.36	-7.639e+04	-0.37	-7.695e+04	-0.37	-7.807e+04
	-0.37	-7.810e+04	-0.37	-7.814e+04	-0.37	-7.821e+04	-0.38	-7.835e+04	-0.38	-7.863e+04	-0.38	-7.919e+04
	-0.39	-8.030e+04	-0.40	-8.142e+04	-0.40	-8.253e+04	-0.41	-8.365e+04	-0.41	-8.369e+04	-0.41	-8.372e+04
	-0.41	-8.379e+04	-0.42	-8.393e+04	-0.42	-8.421e+04	-0.42	-8.477e+04	-0.42	-8.480e+04	-0.42	-8.484e+04
	-0.42	-8.491e+04	-0.43	-8.505e+04	-0.43	-8.532e+04	-0.43	-8.536e+04	-0.43	-8.539e+04	-0.43	-8.546e+04
	-0.43	-8.560e+04	-0.43	-8.588e+04	-0.44	-8.644e+04	-0.45	-8.756e+04	-0.46	-8.867e+04	-0.48	-8.979e+04
	-0.49	-9.091e+04	-0.49	-9.094e+04	-0.49	-9.098e+04	-0.49	-9.105e+04	-0.49	-9.119e+04	-0.50	-9.146e+04
	-0.50	-9.202e+04	-0.50	-9.206e+04	-0.50	-9.209e+04	-0.51	-9.216e+04	-0.51	-9.230e+04	-0.51	-9.258e+04
	-0.52	-9.314e+04	-0.54	-9.425e+04	-0.54	-9.429e+04	-0.54	-9.432e+04	-0.54	-9.439e+04	-0.54	-9.453e+04
	-0.54	-9.481e+04	-0.54	-9.485e+04	-0.54	-9.488e+04	-0.55	-9.495e+04	-0.55	-9.509e+04	-0.55	-9.513e+04
	-0.55	-9.516e+04	-0.55	-9.523e+04	-0.56	-9.537e+04	-0.56	-9.565e+04	-0.57	-9.621e+04	-0.60	-9.732e+04
	-0.63	-9.844e+04	-0.65	-9.956e+04	-0.65	-9.959e+04	-0.65	-9.963e+04	-0.66	-9.970e+04	-0.66	-9.984e+04
	-0.67	-1.001e+05	-0.68	-1.007e+05	-0.71	-1.018e+05	-0.71	-1.018e+05	-0.71	-1.019e+05	-0.71	-1.019e+05
	-0.72	-1.021e+05	-0.73	-1.023e+05	-0.74	-1.029e+05	-0.77	-1.040e+05	-0.81	-1.051e+05	-0.81	-1.052e+05
	-0.81	-1.052e+05	-0.81	-1.053e+05	-0.82	-1.054e+05	-0.83	-1.057e+05	-0.83	-1.057e+05	-0.83	-1.058e+05
	-0.83	-1.058e+05	-0.84	-1.060e+05	-0.84	-1.060e+05	-0.84	-1.060e+05	-0.84	-1.061e+05	-0.85	-1.063e+05
	-0.86	-1.065e+05	-0.88	-1.071e+05	-0.94	-1.082e+05	-0.94	-1.082e+05	-0.94	-1.083e+05	-0.95	-1.083e+05
	-0.96	-1.085e+05	-0.97	-1.088e+05	-1.01	-1.093e+05	-1.10	-1.104e+05	-1.11	-1.105e+05		
Cmb	Sp. Dc	Tag. Fb										
	-1.11	-1.105e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
22	0.0	0.0	3.28e-04	69.8	9.84e-04	209.3	2.30e-03	488.4	4.92e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.07	1.556e+04
	0.08	1.667e+04	0.08	1.779e+04	0.09	1.891e+04	0.09	2.002e+04	0.10	2.114e+04	0.10	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.13	2.784e+04	0.14	2.895e+04
	0.14	3.007e+04	0.15	3.119e+04	0.15	3.230e+04	0.16	3.342e+04	0.16	3.453e+04	0.17	3.565e+04
	0.17	3.677e+04	0.18	3.788e+04	0.18	3.900e+04	0.19	4.012e+04	0.19	4.123e+04	0.20	4.235e+04
	0.21	4.346e+04	0.21	4.458e+04	0.22	4.570e+04	0.22	4.681e+04	0.23	4.793e+04	0.23	4.905e+04
	0.24	5.016e+04	0.24	5.128e+04	0.25	5.239e+04	0.25	5.351e+04	0.26	5.463e+04	0.26	5.574e+04
	0.27	5.686e+04	0.27	5.798e+04	0.28	5.909e+04	0.28	6.021e+04	0.29	6.132e+04	0.29	6.244e+04
	0.30	6.356e+04	0.31	6.467e+04	0.31	6.579e+04	0.32	6.691e+04	0.32	6.802e+04	0.33	6.914e+04
	0.33	7.026e+04	0.34	7.137e+04	0.34	7.249e+04	0.35	7.360e+04	0.35	7.472e+04	0.36	7.584e+04
	0.36	7.587e+04	0.36	7.591e+04	0.36	7.598e+04	0.36	7.612e+04	0.36	7.639e+04	0.37	7.695e+04
	0.37	7.699e+04	0.37	7.706e+04	0.37	7.720e+04	0.37	7.748e+04	0.37	7.803e+04	0.38	7.915e+04
	0.39	8.027e+04	0.40	8.138e+04	0.40	8.250e+04	0.40	8.253e+04	0.41	8.257e+04	0.41	8.264e+04
	0.41	8.278e+04	0.41	8.306e+04	0.41	8.362e+04	0.42	8.473e+04	0.43	8.585e+04	0.44	8.696e+04
	0.44	8.700e+04	0.44	8.703e+04	0.44	8.710e+04	0.44	8.724e+04	0.45	8.752e+04	0.45	8.808e+04
	0.45	8.812e+04	0.45	8.819e+04	0.45	8.832e+04	0.46	8.860e+04	0.46	8.864e+04	0.46	8.867e+04
	0.46	8.874e+04	0.46	8.888e+04	0.46	8.916e+04	0.47	8.972e+04	0.47	8.975e+04	0.47	8.979e+04
	0.47	8.986e+04	0.47	9.000e+04	0.48	9.028e+04	0.48	9.084e+04	0.50	9.195e+04	0.50	9.199e+04
	0.50	9.202e+04	0.50	9.209e+04	0.50	9.223e+04	0.51	9.251e+04	0.52	9.307e+04	0.55	9.419e+04
	0.57	9.530e+04	0.60	9.642e+04	0.60	9.645e+04	0.60	9.649e+04	0.60	9.656e+04	0.60	9.670e+04
	0.61	9.698e+04	0.62	9.753e+04	0.65	9.865e+04	0.68	9.977e+04	0.68	9.980e+04	0.69	9.984e+04
	0.69	9.991e+04	0.69	1.000e+05	0.70	1.003e+05	0.70	1.004e+05	0.70	1.004e+05	0.70	1.005e+05
	0.71	1.006e+05	0.72	1.009e+05	0.73	1.014e+05	0.77	1.026e+05	0.80	1.037e+05	0.84	1.048e+05
	0.84	1.048e+05	0.84	1.049e+05	0.84	1.049e+05	0.85	1.051e+05	0.85	1.051e+05	0.85	1.052e+05
	0.86	1.053e+05	0.87	1.056e+05	0.89	1.061e+05	0.94	1.073e+05	0.94	1.073e+05	0.94	1.073e+05
	0.94	1.074e+05	0.95	1.075e+05	0.97	1.078e+05	0.97	1.079e+05	0.97	1.079e+05	0.97	1.079e+05
	0.98	1.080e+05	0.98	1.080e+05	0.99	1.082e+05	1.01	1.085e+05	1.05	1.090e+05	1.14	1.101e+05
	1.14	1.102e+05	1.15	1.102e+05	1.16	1.104e+05	1.19	1.106e+05	1.24	1.112e+05		
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.24	1.112e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
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Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
23	0.0	0.0	-3.32e-04	-69.8	-9.95e-04	-209.3	-2.32e-03	-488.4	-4.98e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.06	-1.333e+04	-0.07	-1.444e+04	-0.07	-1.556e+04
	-0.08	-1.667e+04	-0.08	-1.779e+04	-0.09	-1.891e+04	-0.10	-2.002e+04	-0.10	-2.114e+04	-0.11	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.12	-2.560e+04	-0.13	-2.672e+04	-0.13	-2.784e+04	-0.14	-2.895e+04
	-0.14	-3.007e+04	-0.15	-3.119e+04	-0.15	-3.230e+04	-0.16	-3.342e+04	-0.16	-3.453e+04	-0.17	-3.565e+04
	-0.18	-3.677e+04	-0.18	-3.788e+04	-0.19	-3.900e+04	-0.19	-4.012e+04	-0.20	-4.123e+04	-0.20	-4.235e+04
	-0.21	-4.346e+04	-0.21	-4.458e+04	-0.22	-4.570e+04	-0.22	-4.681e+04	-0.23	-4.793e+04	-0.23	-4.905e+04
	-0.24	-5.016e+04	-0.24	-5.128e+04	-0.25	-5.239e+04	-0.25	-5.351e+04	-0.26	-5.463e+04	-0.27	-5.574e+04
	-0.27	-5.686e+04	-0.28	-5.798e+04	-0.28	-5.909e+04	-0.29	-6.021e+04	-0.29	-6.132e+04	-0.30	-6.244e+04
	-0.30	-6.356e+04	-0.31	-6.467e+04	-0.31	-6.579e+04	-0.32	-6.691e+04	-0.32	-6.802e+04	-0.33	-6.914e+04
	-0.33	-7.026e+04	-0.34	-7.137e+04	-0.34	-7.141e+04	-0.34	-7.144e+04	-0.34	-7.151e+04	-0.34	-7.165e+04
	-0.34	-7.193e+04	-0.35	-7.249e+04	-0.35	-7.360e+04	-0.36	-7.472e+04	-0.37	-7.584e+04	-0.37	-7.587e+04
	-0.37	-7.591e+04	-0.37	-7.598e+04	-0.37	-7.612e+04	-0.37	-7.639e+04	-0.37	-7.695e+04	-0.37	-7.699e+04
	-0.37	-7.702e+04	-0.37	-7.709e+04	-0.37	-7.723e+04	-0.38	-7.751e+04	-0.38	-7.807e+04	-0.39	-7.919e+04
	-0.40	-8.030e+04	-0.40	-8.142e+04	-0.41	-8.253e+04	-0.41	-8.257e+04	-0.41	-8.264e+04	-0.41	-8.278e+04
	-0.42	-8.306e+04	-0.42	-8.362e+04	-0.43	-8.473e+04	-0.43	-8.477e+04	-0.43	-8.480e+04	-0.43	-8.487e+04
	-0.44	-8.501e+04	-0.44	-8.529e+04	-0.44	-8.585e+04	-0.46	-8.696e+04	-0.47	-8.808e+04	-0.48	-8.920e+04
	-0.50	-9.031e+04	-0.50	-9.035e+04	-0.50	-9.038e+04	-0.50	-9.045e+04	-0.50	-9.059e+04	-0.50	-9.087e+04
	-0.51	-9.143e+04	-0.51	-9.146e+04	-0.51	-9.153e+04	-0.51	-9.167e+04	-0.52	-9.195e+04	-0.53	-9.251e+04
	-0.53	-9.255e+04	-0.53	-9.258e+04	-0.53	-9.265e+04	-0.53	-9.279e+04	-0.53	-9.307e+04	-0.54	-9.363e+04
	-0.54	-9.366e+04	-0.54	-9.370e+04	-0.54	-9.377e+04	-0.55	-9.391e+04	-0.55	-9.419e+04	-0.55	-9.422e+04
	-0.55	-9.425e+04	-0.55	-9.432e+04	-0.56	-9.446e+04	-0.56	-9.474e+04	-0.58	-9.530e+04	-0.60	-9.642e+04
	-0.63	-9.753e+04	-0.66	-9.865e+04	-0.66	-9.868e+04	-0.66	-9.872e+04	-0.66	-9.875e+04	-0.66	-9.882e+04
	-0.66	-9.896e+04	-0.67	-9.924e+04	-0.69	-9.980e+04	-0.71	-1.009e+05	-0.74	-1.020e+05	-0.75	-1.021e+05
	-0.75	-1.021e+05	-0.75	-1.022e+05	-0.75	-1.023e+05	-0.76	-1.026e+05	-0.78	-1.032e+05	-0.81	-1.043e+05
	-0.81	-1.043e+05	-0.81	-1.044e+05	-0.82	-1.044e+05	-0.82	-1.044e+05	-0.82	-1.045e+05	-0.82	-1.047e+05
	-0.83	-1.049e+05	-0.83	-1.050e+05	-0.84	-1.050e+05	-0.84	-1.050e+05	-0.84	-1.051e+05	-0.85	-1.052e+05
	-0.86	-1.055e+05	-0.88	-1.061e+05	-0.93	-1.072e+05	-0.93	-1.072e+05	-0.94	-1.073e+05	-0.94	-1.073e+05
	-0.95	-1.075e+05	-0.95	-1.075e+05	-0.95	-1.075e+05	-0.96	-1.076e+05	-0.96	-1.078e+05	-0.98	-1.080e+05
	-1.01	-1.086e+05	-1.08	-1.097e+05	-1.09	-1.097e+05	-1.09	-1.098e+05	-1.09	-1.098e+05	-1.11	-1.100e+05
	-1.11	-1.100e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.11	-1.100e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
24	0.0	0.0	3.32e-04	69.8	9.95e-04	209.3	2.32e-03	488.4	4.98e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.07	1.556e+04
	0.08	1.667e+04	0.08	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.13	2.784e+04	0.14	2.895e+04
	0.14	3.007e+04	0.15	3.119e+04	0.15	3.230e+04	0.16	3.342e+04	0.16	3.453e+04	0.17	3.565e+04
	0.18	3.677e+04	0.18	3.788e+04	0.19	3.900e+04	0.19	4.012e+04	0.20	4.123e+04	0.20	4.235e+04
	0.21	4.346e+04	0.21	4.458e+04	0.22	4.570e+04	0.22	4.681e+04	0.23	4.793e+04	0.23	4.905e+04
	0.24	5.016e+04	0.24	5.128e+04	0.25	5.239e+04	0.26	5.351e+04	0.26	5.463e+04	0.27	5.574e+04
	0.27	5.686e+04	0.28	5.798e+04	0.28	5.909e+04	0.29	6.021e+04	0.29	6.132e+04	0.30	6.244e+04
	0.30	6.356e+04	0.31	6.467e+04	0.31	6.579e+04	0.32	6.691e+04	0.32	6.802e+04	0.33	6.914e+04
	0.34	7.026e+04	0.34	7.137e+04	0.35	7.249e+04	0.35	7.360e+04	0.36	7.472e+04	0.36	7.475e+04
	0.36	7.479e+04	0.36	7.486e+04	0.36	7.500e+04	0.36	7.528e+04	0.36	7.531e+04	0.36	7.538e+04
	0.36	7.552e+04	0.36	7.580e+04	0.37	7.636e+04	0.37	7.639e+04	0.37	7.643e+04	0.37	7.650e+04
	0.37	7.664e+04	0.37	7.692e+04	0.38	7.748e+04	0.38	7.859e+04	0.39	7.971e+04	0.40	8.082e+04
	0.40	8.086e+04	0.40	8.089e+04	0.40	8.096e+04	0.40	8.110e+04	0.40	8.138e+04	0.41	8.194e+04
	0.42	8.306e+04	0.43	8.417e+04	0.44	8.529e+04	0.45	8.641e+04	0.46	8.752e+04	0.46	8.756e+04
	0.46	8.763e+04	0.46	8.777e+04	0.46	8.780e+04	0.46	8.784e+04	0.46	8.791e+04	0.46	8.805e+04
	0.46	8.832e+04	0.46	8.836e+04	0.47	8.839e+04	0.47	8.846e+04	0.47	8.860e+04	0.47	8.888e+04
	0.48	8.944e+04	0.49	9.056e+04	0.49	9.059e+04	0.49	9.063e+04	0.49	9.070e+04	0.49	9.073e+04
	0.49	9.077e+04	0.49	9.084e+04	0.50	9.087e+04	0.50	9.091e+04	0.50	9.098e+04	0.50	9.112e+04
	0.51	9.139e+04	0.51	9.143e+04	0.51	9.150e+04	0.51	9.164e+04	0.52	9.192e+04	0.53	9.248e+04
	0.56	9.359e+04	0.58	9.471e+04	0.61	9.582e+04	0.61	9.586e+04	0.61	9.589e+04	0.61	9.596e+04
	0.61	9.610e+04	0.62	9.638e+04	0.64	9.694e+04	0.66	9.806e+04	0.69	9.917e+04	0.70	9.921e+04
	0.70	9.924e+04	0.70	9.931e+04	0.70	9.945e+04	0.70	9.949e+04	0.71	9.956e+04	0.71	9.970e+04
	0.71	9.973e+04	0.71	9.977e+04	0.71	9.984e+04	0.72	9.998e+04	0.73	1.003e+05	0.74	1.008e+05
	0.78	1.019e+05	0.81	1.030e+05	0.85	1.042e+05	0.85	1.042e+05	0.85	1.042e+05	0.86	1.043e+05
	0.86	1.044e+05	0.86	1.045e+05	0.86	1.045e+05	0.87	1.047e+05	0.88	1.050e+05	0.90	1.055e+05
	0.95	1.066e+05	0.96	1.067e+05	0.96	1.067e+05	0.96	1.068e+05	0.97	1.069e+05	0.98	1.072e+05
	1.01	1.078e+05	1.02	1.078e+05	1.02	1.079e+05	1.03	1.080e+05	1.04	1.083e+05	1.08	1.088e+05
	1.08	1.089e+05	1.09	1.089e+05	1.09	1.090e+05	1.10	1.091e+05	1.12	1.094e+05	1.17	1.100e+05
	1.17	1.100e+05	1.17	1.100e+05	1.18	1.101e+05	1.19	1.102e+05	1.22	1.105e+05	1.28	1.111e+05
Cmb	Sp. Dc	Tag. Fb										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.0	0.0										
	1.28	1.111e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
25	0.0	0.0	-2.83e-04	-69.8	-8.49e-04	-209.3	-1.98e-03	-488.4	-4.25e-03	-1046.5	-8.77e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.14	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.18	-4.346e+04	-0.18	-4.458e+04	-0.19	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.23	-5.574e+04
	-0.23	-5.686e+04	-0.24	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.27	-6.579e+04	-0.27	-6.691e+04	-0.28	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.479e+04	-0.30	-7.486e+04	-0.30	-7.500e+04	-0.30	-7.503e+04	-0.30	-7.507e+04	-0.30	-7.510e+04
	-0.31	-7.517e+04	-0.31	-7.521e+04	-0.31	-7.528e+04	-0.31	-7.542e+04	-0.31	-7.570e+04	-0.31	-7.625e+04
	-0.32	-7.737e+04	-0.32	-7.849e+04	-0.33	-7.960e+04	-0.33	-8.072e+04	-0.33	-8.075e+04	-0.33	-8.079e+04
	-0.33	-8.086e+04	-0.33	-8.100e+04	-0.33	-8.128e+04	-0.34	-8.184e+04	-0.34	-8.295e+04	-0.35	-8.407e+04
	-0.36	-8.519e+04	-0.36	-8.630e+04	-0.36	-8.634e+04	-0.36	-8.637e+04	-0.36	-8.644e+04	-0.36	-8.658e+04
	-0.37	-8.686e+04	-0.37	-8.742e+04	-0.38	-8.853e+04	-0.38	-8.857e+04	-0.38	-8.864e+04	-0.38	-8.878e+04
	-0.38	-8.906e+04	-0.39	-8.962e+04	-0.39	-9.073e+04	-0.39	-9.077e+04	-0.39	-9.080e+04	-0.39	-9.084e+04
	-0.40	-9.091e+04	-0.40	-9.105e+04	-0.40	-9.132e+04	-0.40	-9.136e+04	-0.40	-9.143e+04	-0.40	-9.157e+04
	-0.40	-9.185e+04	-0.41	-9.241e+04	-0.42	-9.352e+04	-0.42	-9.356e+04	-0.42	-9.359e+04	-0.42	-9.366e+04
	-0.42	-9.380e+04	-0.43	-9.408e+04	-0.43	-9.464e+04	-0.45	-9.575e+04	-0.45	-9.579e+04	-0.45	-9.582e+04
	-0.45	-9.589e+04	-0.45	-9.603e+04	-0.45	-9.631e+04	-0.46	-9.687e+04	-0.47	-9.799e+04	-0.47	-9.802e+04
	-0.47	-9.809e+04	-0.48	-9.823e+04	-0.48	-9.851e+04	-0.49	-9.907e+04	-0.50	-1.002e+05	-0.51	-1.013e+05
	-0.53	-1.024e+05	-0.53	-1.025e+05	-0.53	-1.025e+05	-0.53	-1.026e+05	-0.53	-1.027e+05	-0.53	-1.030e+05
	-0.54	-1.035e+05	-0.54	-1.036e+05	-0.54	-1.036e+05	-0.54	-1.037e+05	-0.54	-1.038e+05	-0.55	-1.041e+05
	-0.55	-1.041e+05	-0.55	-1.042e+05	-0.55	-1.042e+05	-0.55	-1.043e+05	-0.55	-1.044e+05	-0.56	-1.047e+05
	-0.57	-1.053e+05	-0.58	-1.064e+05	-0.60	-1.075e+05	-0.60	-1.075e+05	-0.60	-1.076e+05	-0.60	-1.076e+05
	-0.60	-1.078e+05	-0.61	-1.081e+05	-0.61	-1.081e+05	-0.61	-1.081e+05	-0.61	-1.082e+05	-0.61	-1.083e+05
	-0.62	-1.086e+05	-0.63	-1.092e+05	-0.65	-1.103e+05	-0.65	-1.103e+05	-0.65	-1.104e+05	-0.66	-1.104e+05
	-0.66	-1.106e+05	-0.67	-1.109e+05	-0.68	-1.114e+05	-0.70	-1.125e+05	-0.73	-1.136e+05	-0.73	-1.137e+05
	-0.73	-1.137e+05	-0.74	-1.138e+05	-0.74	-1.139e+05	-0.74	-1.140e+05	-0.74	-1.140e+05	-0.75	-1.142e+05
	-0.75	-1.145e+05	-0.77	-1.150e+05	-0.80	-1.161e+05	-0.80	-1.162e+05	-0.80	-1.162e+05	-0.80	-1.163e+05
	-0.81	-1.164e+05	-0.82	-1.167e+05	-0.83	-1.172e+05	-0.83	-1.173e+05	-0.83	-1.173e+05	-0.84	-1.174e+05
	-0.84	-1.175e+05	-0.85	-1.178e+05	-0.87	-1.184e+05	-0.91	-1.195e+05	-0.91	-1.195e+05	-0.92	-1.196e+05
	-0.92	-1.197e+05	-0.93	-1.200e+05	-0.93	-1.200e+05	-0.94	-1.201e+05	-0.94	-1.201e+05	-0.94	-1.203e+05
	-0.96	-1.206e+05	-0.98	-1.211e+05	-0.98	-1.211e+05	-0.98	-1.212e+05	-0.99	-1.213e+05	-0.99	-1.214e+05
	-1.01	-1.217e+05	-1.04	-1.222e+05	-1.04	-1.223e+05	-1.04	-1.223e+05	-1.04	-1.224e+05	-1.05	-1.225e+05
	-1.07	-1.228e+05	-1.07	-1.228e+05	-1.07	-1.229e+05	-1.08	-1.229e+05	-1.09	-1.231e+05	-1.11	-1.233e+05
	-1.11	-1.234e+05	-1.11	-1.234e+05	-1.12	-1.235e+05	-1.13	-1.236e+05	-1.15	-1.239e+05	-1.19	-1.245e+05
	-1.27	-1.256e+05	-1.35	-1.267e+05	-1.35	-1.267e+05	-1.36	-1.268e+05	-1.37	-1.269e+05	-1.39	-1.272e+05
	-1.43	-1.278e+05	-1.51	-1.289e+05	-1.52	-1.289e+05	-1.52	-1.290e+05	-1.53	-1.290e+05	-1.54	-1.292e+05
	-1.56	-1.295e+05	-1.61	-1.300e+05								
Cmb	Sp. Dc	Tag. Fb										
	-1.61	-1.300e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
26	0.0	0.0	2.83e-04	69.8	8.49e-04	209.3	1.98e-03	488.4	4.25e-03	1046.5	8.78e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.09	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.14	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.18	4.346e+04	0.18	4.458e+04	0.19	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.22	5.351e+04	0.22	5.463e+04	0.23	5.574e+04
	0.23	5.686e+04	0.24	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.27	6.579e+04	0.27	6.691e+04	0.28	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.472e+04	0.31	7.584e+04
	0.31	7.695e+04	0.32	7.807e+04	0.32	7.919e+04	0.32	7.922e+04	0.32	7.925e+04	0.32	7.932e+04
	0.32	7.946e+04	0.32	7.974e+04	0.33	8.030e+04	0.33	8.142e+04	0.34	8.253e+04	0.34	8.257e+04
	0.34	8.260e+04	0.34	8.267e+04	0.34	8.281e+04	0.34	8.309e+04	0.34	8.365e+04	0.35	8.477e+04
	0.35	8.480e+04	0.35	8.484e+04	0.35	8.491e+04	0.35	8.505e+04	0.35	8.532e+04	0.35	8.536e+04
	0.35	8.539e+04	0.35	8.546e+04	0.35	8.560e+04	0.35	8.588e+04	0.36	8.644e+04	0.36	8.756e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.37	8.867e+04	0.38	8.979e+04	0.39	9.091e+04	0.39	9.202e+04	0.39	9.206e+04	0.39	9.209e+04
	0.39	9.216e+04	0.39	9.230e+04	0.40	9.258e+04	0.40	9.314e+04	0.41	9.425e+04	0.41	9.537e+04
	0.41	9.541e+04	0.41	9.544e+04	0.41	9.548e+04	0.42	9.555e+04	0.42	9.568e+04	0.42	9.596e+04
	0.42	9.652e+04	0.42	9.656e+04	0.42	9.659e+04	0.43	9.666e+04	0.43	9.680e+04	0.43	9.708e+04
	0.43	9.712e+04	0.43	9.715e+04	0.43	9.722e+04	0.43	9.736e+04	0.44	9.764e+04	0.44	9.767e+04
	0.44	9.771e+04	0.44	9.778e+04	0.44	9.792e+04	0.44	9.820e+04	0.45	9.875e+04	0.46	9.987e+04
	0.48	1.010e+05	0.49	1.021e+05	0.51	1.032e+05	0.52	1.043e+05	0.52	1.044e+05	0.52	1.044e+05
	0.52	1.045e+05	0.52	1.046e+05	0.53	1.049e+05	0.53	1.055e+05	0.55	1.066e+05	0.55	1.066e+05
	0.55	1.066e+05	0.55	1.067e+05	0.55	1.067e+05	0.55	1.069e+05	0.56	1.072e+05	0.57	1.077e+05
	0.57	1.078e+05	0.57	1.078e+05	0.57	1.079e+05	0.57	1.080e+05	0.57	1.080e+05	0.57	1.081e+05
	0.57	1.082e+05	0.58	1.085e+05	0.59	1.091e+05	0.61	1.102e+05	0.63	1.113e+05	0.64	1.124e+05
	0.66	1.135e+05	0.68	1.147e+05	0.70	1.158e+05	0.70	1.158e+05	0.70	1.159e+05	0.71	1.160e+05
	0.71	1.161e+05	0.71	1.161e+05	0.71	1.162e+05	0.71	1.163e+05	0.72	1.166e+05	0.73	1.171e+05
	0.75	1.183e+05	0.77	1.194e+05	0.78	1.194e+05	0.78	1.194e+05	0.78	1.195e+05	0.78	1.195e+05
	0.78	1.197e+05	0.79	1.200e+05	0.80	1.205e+05	0.83	1.216e+05	0.83	1.217e+05	0.83	1.217e+05
	0.84	1.218e+05	0.84	1.219e+05	0.85	1.222e+05	0.85	1.222e+05	0.85	1.223e+05	0.86	1.223e+05
	0.86	1.225e+05	0.87	1.228e+05	0.89	1.233e+05	0.89	1.233e+05	0.89	1.234e+05	0.90	1.235e+05
	0.90	1.236e+05	0.91	1.239e+05	0.94	1.244e+05	0.99	1.255e+05	0.99	1.256e+05	0.99	1.256e+05
	0.99	1.256e+05	0.99	1.257e+05	1.00	1.258e+05	1.00	1.259e+05	1.02	1.262e+05	1.06	1.267e+05
	1.06	1.268e+05	1.06	1.268e+05	1.07	1.269e+05	1.08	1.270e+05	1.10	1.273e+05	1.15	1.278e+05
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.15	1.278e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
27	0.0	0.0	-2.82e-04	-69.8	-8.47e-04	-209.3	-1.98e-03	-488.4	-4.23e-03	-1046.5	-8.75e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.14	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.18	-4.346e+04	-0.18	-4.458e+04	-0.18	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.23	-5.574e+04
	-0.23	-5.686e+04	-0.23	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.27	-6.579e+04	-0.27	-6.691e+04	-0.28	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.479e+04	-0.30	-7.486e+04	-0.30	-7.500e+04	-0.30	-7.528e+04	-0.31	-7.584e+04	-0.31	-7.695e+04
	-0.32	-7.807e+04	-0.32	-7.919e+04	-0.32	-7.922e+04	-0.32	-7.925e+04	-0.32	-7.932e+04	-0.32	-7.946e+04
	-0.32	-7.974e+04	-0.33	-8.030e+04	-0.33	-8.142e+04	-0.34	-8.253e+04	-0.34	-8.365e+04	-0.35	-8.477e+04
	-0.35	-8.480e+04	-0.35	-8.484e+04	-0.35	-8.491e+04	-0.35	-8.505e+04	-0.35	-8.532e+04	-0.35	-8.588e+04
	-0.36	-8.700e+04	-0.36	-8.703e+04	-0.36	-8.707e+04	-0.36	-8.714e+04	-0.36	-8.728e+04	-0.36	-8.756e+04
	-0.37	-8.812e+04	-0.37	-8.923e+04	-0.38	-9.035e+04	-0.38	-9.038e+04	-0.38	-9.042e+04	-0.38	-9.049e+04
	-0.38	-9.063e+04	-0.38	-9.091e+04	-0.38	-9.146e+04	-0.38	-9.150e+04	-0.38	-9.153e+04	-0.39	-9.160e+04
	-0.39	-9.174e+04	-0.39	-9.202e+04	-0.39	-9.258e+04	-0.39	-9.262e+04	-0.39	-9.265e+04	-0.39	-9.272e+04
	-0.39	-9.286e+04	-0.40	-9.314e+04	-0.40	-9.370e+04	-0.41	-9.481e+04	-0.41	-9.485e+04	-0.41	-9.488e+04
	-0.41	-9.495e+04	-0.41	-9.499e+04	-0.41	-9.502e+04	-0.41	-9.509e+04	-0.41	-9.523e+04	-0.42	-9.551e+04
	-0.42	-9.607e+04	-0.42	-9.610e+04	-0.42	-9.614e+04	-0.42	-9.621e+04	-0.42	-9.635e+04	-0.43	-9.663e+04
	-0.43	-9.718e+04	-0.43	-9.722e+04	-0.43	-9.729e+04	-0.44	-9.743e+04	-0.44	-9.771e+04	-0.45	-9.827e+04
	-0.46	-9.938e+04	-0.47	-1.005e+05	-0.47	-1.005e+05	-0.47	-1.006e+05	-0.47	-1.006e+05	-0.47	-1.008e+05
	-0.48	-1.011e+05	-0.48	-1.016e+05	-0.50	-1.027e+05	-0.51	-1.038e+05	-0.53	-1.050e+05	-0.53	-1.050e+05
	-0.53	-1.050e+05	-0.53	-1.051e+05	-0.53	-1.052e+05	-0.53	-1.055e+05	-0.54	-1.061e+05	-0.54	-1.061e+05
	-0.54	-1.061e+05	-0.54	-1.062e+05	-0.55	-1.064e+05	-0.55	-1.066e+05	-0.56	-1.072e+05	-0.58	-1.083e+05
	-0.58	-1.083e+05	-0.58	-1.084e+05	-0.58	-1.085e+05	-0.58	-1.086e+05	-0.58	-1.089e+05	-0.59	-1.089e+05
	-0.59	-1.090e+05	-0.59	-1.091e+05	-0.59	-1.094e+05	-0.60	-1.100e+05	-0.62	-1.111e+05	-0.62	-1.111e+05
	-0.62	-1.111e+05	-0.63	-1.112e+05	-0.63	-1.113e+05	-0.63	-1.116e+05	-0.65	-1.122e+05	-0.67	-1.133e+05
	-0.67	-1.133e+05	-0.67	-1.134e+05	-0.67	-1.134e+05	-0.68	-1.136e+05	-0.68	-1.139e+05	-0.69	-1.144e+05
	-0.72	-1.155e+05	-0.73	-1.156e+05	-0.73	-1.156e+05	-0.73	-1.157e+05	-0.73	-1.157e+05	-0.73	-1.157e+05
	-0.73	-1.158e+05	-0.74	-1.160e+05	-0.75	-1.162e+05	-0.77	-1.168e+05	-0.77	-1.168e+05	-0.78	-1.169e+05
	-0.78	-1.170e+05	-0.79	-1.173e+05	-0.80	-1.173e+05	-0.80	-1.174e+05	-0.80	-1.175e+05	-0.81	-1.176e+05
	-0.82	-1.179e+05	-0.85	-1.184e+05	-0.85	-1.185e+05	-0.85	-1.185e+05	-0.85	-1.186e+05	-0.86	-1.187e+05
	-0.87	-1.190e+05	-0.90	-1.195e+05	-0.96	-1.207e+05	-0.96	-1.207e+05	-0.96	-1.208e+05	-0.97	-1.209e+05
	-0.99	-1.212e+05	-0.99	-1.212e+05	-0.99	-1.213e+05	-1.00	-1.213e+05	-1.00	-1.215e+05	-1.01	-1.215e+05
	-1.01	-1.215e+05	-1.01	-1.216e+05	-1.02	-1.217e+05	-1.04	-1.220e+05	-1.04	-1.221e+05	-1.04	-1.221e+05
	-1.05	-1.222e+05	-1.06	-1.223e+05	-1.07	-1.226e+05	-1.11	-1.231e+05	-1.19	-1.243e+05	-1.26	-1.254e+05
	-1.34	-1.265e+05	-1.41	-1.276e+05	-1.42	-1.276e+05	-1.42	-1.277e+05	-1.43	-1.277e+05	-1.44	-1.279e+05
	-1.46	-1.282e+05	-1.50	-1.287e+05	-1.59	-1.298e+05	-1.67	-1.310e+05	-1.77	-1.321e+05		
Cmb	Sp. Dc	Tag. Fb										
	-1.77	-1.321e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.56	-9.314e+04	-0.56	-9.342e+04	-0.57	-9.398e+04	-0.60	-9.509e+04	-0.62	-9.621e+04	-0.65	-9.732e+04
	-0.65	-9.736e+04	-0.65	-9.739e+04	-0.65	-9.746e+04	-0.66	-9.760e+04	-0.66	-9.788e+04	-0.68	-9.844e+04
	-0.70	-9.956e+04	-0.73	-1.007e+05	-0.73	-1.007e+05	-0.73	-1.008e+05	-0.74	-1.009e+05	-0.74	-1.012e+05
	-0.76	-1.018e+05	-0.76	-1.018e+05	-0.76	-1.019e+05	-0.76	-1.020e+05	-0.77	-1.023e+05	-0.79	-1.028e+05
	-0.79	-1.029e+05	-0.79	-1.029e+05	-0.79	-1.030e+05	-0.80	-1.031e+05	-0.80	-1.032e+05	-0.80	-1.032e+05
	-0.80	-1.033e+05	-0.80	-1.034e+05	-0.81	-1.037e+05	-0.83	-1.042e+05	-0.87	-1.053e+05	-0.87	-1.054e+05
	-0.87	-1.055e+05	-0.88	-1.056e+05	-0.89	-1.059e+05	-0.91	-1.064e+05	-0.96	-1.075e+05	-0.96	-1.076e+05
	-0.96	-1.076e+05	-0.97	-1.077e+05	-0.97	-1.078e+05	-0.99	-1.081e+05	-1.02	-1.087e+05	-1.09	-1.098e+05
	-1.09	-1.098e+05	-1.10	-1.098e+05	-1.10	-1.099e+05	-1.12	-1.101e+05				
Cmb	Sp. Dc	Tag. Fb										
	-1.12	-1.101e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
30	0.0	0.0	3.38e-04	69.8	1.01e-03	209.3	2.37e-03	488.4	5.07e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.08	1.556e+04
	0.08	1.667e+04	0.09	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.14	2.784e+04	0.14	2.895e+04
	0.15	3.007e+04	0.15	3.119e+04	0.16	3.230e+04	0.16	3.342e+04	0.17	3.453e+04	0.17	3.565e+04
	0.18	3.677e+04	0.18	3.788e+04	0.19	3.900e+04	0.19	4.012e+04	0.20	4.123e+04	0.21	4.235e+04
	0.21	4.346e+04	0.22	4.458e+04	0.22	4.570e+04	0.23	4.681e+04	0.23	4.793e+04	0.24	4.905e+04
	0.24	5.016e+04	0.25	5.128e+04	0.25	5.239e+04	0.26	5.351e+04	0.27	5.463e+04	0.27	5.574e+04
	0.28	5.686e+04	0.28	5.798e+04	0.29	5.909e+04	0.29	6.021e+04	0.30	6.132e+04	0.30	6.244e+04
	0.31	6.356e+04	0.31	6.467e+04	0.32	6.579e+04	0.33	6.691e+04	0.33	6.802e+04	0.34	6.914e+04
	0.34	7.026e+04	0.35	7.137e+04	0.35	7.249e+04	0.36	7.360e+04	0.36	7.364e+04	0.36	7.367e+04
	0.36	7.374e+04	0.36	7.388e+04	0.36	7.416e+04	0.37	7.472e+04	0.37	7.584e+04	0.38	7.695e+04
	0.39	7.807e+04	0.40	7.919e+04	0.40	7.922e+04	0.40	7.925e+04	0.40	7.932e+04	0.40	7.946e+04
	0.40	7.950e+04	0.40	7.953e+04	0.40	7.960e+04	0.40	7.974e+04	0.40	8.002e+04	0.41	8.058e+04
	0.42	8.170e+04	0.43	8.281e+04	0.44	8.393e+04	0.45	8.505e+04	0.46	8.616e+04	0.46	8.620e+04
	0.46	8.623e+04	0.46	8.630e+04	0.46	8.644e+04	0.46	8.672e+04	0.47	8.728e+04	0.47	8.731e+04
	0.47	8.735e+04	0.47	8.742e+04	0.47	8.756e+04	0.48	8.784e+04	0.48	8.839e+04	0.50	8.951e+04
	0.50	8.955e+04	0.50	8.958e+04	0.50	8.965e+04	0.50	8.979e+04	0.51	9.007e+04	0.52	9.063e+04
	0.54	9.174e+04	0.57	9.286e+04	0.57	9.289e+04	0.57	9.293e+04	0.57	9.300e+04	0.57	9.314e+04
	0.58	9.342e+04	0.59	9.398e+04	0.62	9.509e+04	0.62	9.513e+04	0.62	9.520e+04	0.63	9.534e+04
	0.63	9.562e+04	0.65	9.617e+04	0.67	9.729e+04	0.70	9.841e+04	0.70	9.844e+04	0.70	9.851e+04
	0.71	9.865e+04	0.72	9.893e+04	0.73	9.949e+04	0.76	1.006e+05	0.76	1.006e+05	0.76	1.007e+05
	0.77	1.008e+05	0.77	1.009e+05	0.77	1.010e+05	0.77	1.011e+05	0.77	1.011e+05	0.77	1.012e+05
	0.78	1.012e+05	0.78	1.013e+05	0.78	1.014e+05	0.79	1.017e+05	0.81	1.022e+05	0.85	1.034e+05
	0.85	1.034e+05	0.85	1.034e+05	0.85	1.035e+05	0.85	1.036e+05	0.86	1.039e+05	0.88	1.045e+05
	0.92	1.056e+05	0.93	1.056e+05	0.93	1.057e+05	0.93	1.057e+05	0.94	1.059e+05	0.95	1.061e+05
	0.97	1.067e+05	0.97	1.067e+05	0.97	1.068e+05	0.98	1.068e+05	0.98	1.070e+05	1.00	1.073e+05
	1.02	1.078e+05	1.03	1.079e+05	1.03	1.079e+05	1.03	1.080e+05	1.04	1.081e+05	1.05	1.084e+05
	1.08	1.089e+05	1.09	1.090e+05	1.09	1.090e+05	1.09	1.090e+05	1.10	1.091e+05	1.10	1.091e+05
	1.10	1.092e+05	1.11	1.093e+05	1.12	1.094e+05	1.15	1.097e+05	1.19	1.102e+05	1.29	1.113e+05
	1.30	1.114e+05										
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.30	1.114e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
31	0.0	0.0	-3.42e-04	-69.8	-1.03e-03	-209.3	-2.39e-03	-488.4	-5.13e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.07	-1.333e+04	-0.07	-1.444e+04	-0.08	-1.556e+04
	-0.08	-1.667e+04	-0.09	-1.779e+04	-0.09	-1.891e+04	-0.10	-2.002e+04	-0.10	-2.114e+04	-0.11	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.13	-2.560e+04	-0.13	-2.672e+04	-0.14	-2.784e+04	-0.14	-2.895e+04
	-0.15	-3.007e+04	-0.15	-3.119e+04	-0.16	-3.230e+04	-0.16	-3.342e+04	-0.17	-3.453e+04	-0.17	-3.565e+04
	-0.18	-3.677e+04	-0.19	-3.788e+04	-0.19	-3.900e+04	-0.20	-4.012e+04	-0.20	-4.123e+04	-0.21	-4.235e+04
	-0.21	-4.346e+04	-0.22	-4.458e+04	-0.22	-4.570e+04	-0.23	-4.681e+04	-0.24	-4.793e+04	-0.24	-4.905e+04
	-0.25	-5.016e+04	-0.25	-5.128e+04	-0.26	-5.239e+04	-0.26	-5.351e+04	-0.27	-5.463e+04	-0.27	-5.574e+04
	-0.28	-5.686e+04	-0.28	-5.798e+04	-0.29	-5.909e+04	-0.30	-6.021e+04	-0.30	-6.132e+04	-0.31	-6.244e+04
	-0.31	-6.356e+04	-0.32	-6.467e+04	-0.32	-6.579e+04	-0.33	-6.691e+04	-0.33	-6.802e+04	-0.34	-6.914e+04
	-0.34	-6.917e+04	-0.34	-6.921e+04	-0.34	-6.928e+04	-0.34	-6.942e+04	-0.34	-6.970e+04	-0.35	-7.026e+04
	-0.35	-7.137e+04	-0.36	-7.249e+04	-0.37	-7.360e+04	-0.37	-7.472e+04	-0.37	-7.475e+04	-0.37	-7.479e+04
	-0.37	-7.486e+04	-0.37	-7.500e+04	-0.38	-7.528e+04	-0.38	-7.584e+04	-0.39	-7.695e+04	-0.40	-7.807e+04
	-0.40	-7.810e+04	-0.40	-7.814e+04	-0.40	-7.821e+04	-0.40	-7.835e+04	-0.40	-7.863e+04	-0.40	-7.919e+04
	-0.40	-7.922e+04	-0.40	-7.925e+04	-0.41	-7.932e+04	-0.41	-7.946e+04	-0.41	-7.974e+04	-0.41	-8.030e+04
	-0.42	-8.142e+04	-0.42	-8.145e+04	-0.42	-8.149e+04	-0.42	-8.156e+04	-0.43	-8.170e+04	-0.43	-8.173e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.43	-8.177e+04	-0.43	-8.184e+04	-0.43	-8.198e+04	-0.43	-8.225e+04	-0.44	-8.281e+04	-0.45	-8.393e+04
	-0.46	-8.505e+04	-0.47	-8.616e+04	-0.47	-8.620e+04	-0.47	-8.623e+04	-0.48	-8.630e+04	-0.48	-8.644e+04
	-0.48	-8.672e+04	-0.48	-8.675e+04	-0.48	-8.679e+04	-0.48	-8.686e+04	-0.48	-8.700e+04	-0.49	-8.728e+04
	-0.49	-8.784e+04	-0.51	-8.895e+04	-0.52	-9.007e+04	-0.54	-9.119e+04	-0.54	-9.122e+04	-0.54	-9.129e+04
	-0.54	-9.143e+04	-0.54	-9.146e+04	-0.54	-9.150e+04	-0.54	-9.157e+04	-0.54	-9.160e+04	-0.55	-9.164e+04
	-0.55	-9.167e+04	-0.55	-9.174e+04	-0.55	-9.188e+04	-0.56	-9.216e+04	-0.56	-9.220e+04	-0.56	-9.227e+04
	-0.56	-9.241e+04	-0.57	-9.269e+04	-0.58	-9.324e+04	-0.61	-9.436e+04	-0.63	-9.548e+04	-0.66	-9.659e+04
	-0.66	-9.663e+04	-0.66	-9.666e+04	-0.66	-9.673e+04	-0.66	-9.687e+04	-0.67	-9.715e+04	-0.68	-9.771e+04
	-0.71	-9.882e+04	-0.74	-9.994e+04	-0.74	-9.998e+04	-0.74	-1.000e+05	-0.74	-1.002e+05	-0.75	-1.005e+05
	-0.77	-1.010e+05	-0.77	-1.011e+05	-0.77	-1.011e+05	-0.77	-1.012e+05	-0.77	-1.013e+05	-0.78	-1.016e+05
	-0.78	-1.016e+05	-0.78	-1.017e+05	-0.78	-1.017e+05	-0.79	-1.019e+05	-0.80	-1.021e+05	-0.81	-1.027e+05
	-0.81	-1.027e+05	-0.82	-1.028e+05	-0.82	-1.028e+05	-0.82	-1.030e+05	-0.83	-1.033e+05	-0.85	-1.038e+05
	-0.85	-1.038e+05	-0.85	-1.039e+05	-0.86	-1.041e+05	-0.87	-1.043e+05	-0.89	-1.049e+05	-0.93	-1.060e+05
	-0.93	-1.060e+05	-0.94	-1.061e+05	-0.94	-1.061e+05	-0.95	-1.063e+05	-0.95	-1.063e+05	-0.95	-1.064e+05
	-0.95	-1.064e+05	-0.96	-1.066e+05	-0.97	-1.068e+05	-1.00	-1.074e+05	-1.06	-1.085e+05	-1.14	-1.096e+05
	-1.15	-1.097e+05	-1.15	-1.097e+05	-1.15	-1.098e+05	-1.17	-1.099e+05	-1.19	-1.102e+05	-1.24	-1.108e+05
	-1.25	-1.108e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.25	-1.108e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
32	0.0	0.0	3.42e-04	69.8	1.03e-03	209.3	2.39e-03	488.4	5.13e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.07	1.333e+04	0.07	1.444e+04	0.08	1.556e+04
	0.08	1.667e+04	0.09	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.13	2.560e+04	0.13	2.672e+04	0.14	2.784e+04	0.14	2.895e+04
	0.15	3.007e+04	0.15	3.119e+04	0.16	3.230e+04	0.16	3.342e+04	0.17	3.453e+04	0.18	3.565e+04
	0.18	3.677e+04	0.19	3.788e+04	0.19	3.900e+04	0.20	4.012e+04	0.20	4.123e+04	0.21	4.235e+04
	0.21	4.346e+04	0.22	4.458e+04	0.22	4.570e+04	0.23	4.681e+04	0.24	4.793e+04	0.24	4.905e+04
	0.25	5.016e+04	0.25	5.128e+04	0.26	5.239e+04	0.26	5.351e+04	0.27	5.463e+04	0.27	5.574e+04
	0.28	5.686e+04	0.28	5.798e+04	0.29	5.909e+04	0.30	6.021e+04	0.30	6.132e+04	0.31	6.244e+04
	0.31	6.356e+04	0.32	6.467e+04	0.32	6.579e+04	0.33	6.691e+04	0.33	6.802e+04	0.34	6.914e+04
	0.35	7.026e+04	0.35	7.137e+04	0.36	7.249e+04	0.36	7.252e+04	0.36	7.256e+04	0.36	7.263e+04
	0.36	7.277e+04	0.36	7.305e+04	0.36	7.360e+04	0.37	7.472e+04	0.38	7.584e+04	0.39	7.695e+04
	0.39	7.807e+04	0.40	7.919e+04	0.40	7.922e+04	0.40	7.925e+04	0.41	7.932e+04	0.41	7.946e+04
	0.41	7.974e+04	0.41	8.030e+04	0.42	8.142e+04	0.43	8.253e+04	0.44	8.365e+04	0.45	8.477e+04
	0.45	8.480e+04	0.45	8.484e+04	0.45	8.491e+04	0.46	8.505e+04	0.46	8.532e+04	0.46	8.536e+04
	0.46	8.543e+04	0.46	8.557e+04	0.46	8.585e+04	0.46	8.588e+04	0.47	8.592e+04	0.47	8.599e+04
	0.47	8.613e+04	0.47	8.641e+04	0.48	8.696e+04	0.49	8.808e+04	0.49	8.812e+04	0.49	8.815e+04
	0.49	8.822e+04	0.50	8.836e+04	0.50	8.864e+04	0.51	8.920e+04	0.53	9.031e+04	0.56	9.143e+04
	0.56	9.146e+04	0.56	9.150e+04	0.56	9.157e+04	0.56	9.171e+04	0.56	9.174e+04	0.57	9.178e+04
	0.57	9.185e+04	0.57	9.199e+04	0.58	9.227e+04	0.59	9.282e+04	0.62	9.394e+04	0.62	9.398e+04
	0.62	9.405e+04	0.62	9.419e+04	0.63	9.446e+04	0.64	9.502e+04	0.67	9.614e+04	0.70	9.725e+04
	0.70	9.729e+04	0.70	9.732e+04	0.70	9.739e+04	0.71	9.753e+04	0.71	9.781e+04	0.73	9.837e+04
	0.76	9.949e+04	0.79	1.006e+05	0.79	1.006e+05	0.79	1.007e+05	0.79	1.007e+05	0.80	1.009e+05
	0.81	1.012e+05	0.82	1.017e+05	0.86	1.028e+05	0.86	1.029e+05	0.86	1.029e+05	0.87	1.030e+05
	0.87	1.031e+05	0.88	1.034e+05	0.90	1.040e+05	0.94	1.051e+05	0.95	1.051e+05	0.95	1.051e+05
	0.95	1.052e+05	0.96	1.053e+05	0.97	1.056e+05	0.99	1.062e+05	0.99	1.062e+05	1.00	1.063e+05
	1.00	1.064e+05	1.02	1.067e+05	1.05	1.073e+05	1.05	1.073e+05	1.05	1.073e+05	1.05	1.074e+05
	1.06	1.075e+05	1.07	1.078e+05	1.11	1.084e+05	1.11	1.084e+05	1.11	1.085e+05	1.11	1.085e+05
	1.12	1.085e+05	1.12	1.086e+05	1.13	1.087e+05	1.15	1.090e+05	1.19	1.096e+05	1.28	1.107e+05
	1.28	1.107e+05	1.28	1.108e+05	1.29	1.108e+05	1.29	1.109e+05				
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.29	1.109e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
33	0.0	0.0	-2.81e-04	-69.8	-8.43e-04	-209.3	-1.97e-03	-488.4	-4.21e-03	-1046.5	-8.71e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.13	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.17	-4.346e+04	-0.18	-4.458e+04	-0.18	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.22	-5.574e+04
	-0.23	-5.686e+04	-0.23	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.26	-6.579e+04	-0.27	-6.691e+04	-0.27	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.482e+04	-0.30	-7.496e+04	-0.30	-7.524e+04	-0.31	-7.580e+04	-0.31	-7.584e+04	-0.31	-7.587e+04
	-0.31	-7.594e+04	-0.31	-7.608e+04	-0.31	-7.636e+04	-0.31	-7.692e+04	-0.32	-7.803e+04	-0.32	-7.915e+04
	-0.33	-8.027e+04	-0.33	-8.138e+04	-0.33	-8.142e+04	-0.33	-8.149e+04	-0.33	-8.163e+04	-0.34	-8.191e+04
	-0.34	-8.246e+04	-0.34	-8.358e+04	-0.35	-8.470e+04	-0.36	-8.581e+04	-0.36	-8.585e+04	-0.36	-8.588e+04
	-0.36	-8.595e+04	-0.36	-8.609e+04	-0.36	-8.637e+04	-0.36	-8.693e+04	-0.37	-8.805e+04	-0.38	-8.916e+04
	-0.39	-9.028e+04	-0.39	-9.031e+04	-0.39	-9.035e+04	-0.39	-9.042e+04	-0.39	-9.056e+04	-0.39	-9.084e+04
	-0.39	-9.087e+04	-0.39	-9.091e+04	-0.39	-9.094e+04	-0.39	-9.101e+04	-0.40	-9.115e+04	-0.40	-9.143e+04
	-0.40	-9.199e+04	-0.41	-9.310e+04	-0.43	-9.422e+04	-0.43	-9.425e+04	-0.43	-9.429e+04	-0.43	-9.436e+04
	-0.43	-9.450e+04	-0.43	-9.478e+04	-0.44	-9.534e+04	-0.45	-9.645e+04	-0.45	-9.649e+04	-0.45	-9.652e+04
	-0.45	-9.659e+04	-0.45	-9.673e+04	-0.46	-9.701e+04	-0.46	-9.757e+04	-0.48	-9.868e+04	-0.49	-9.980e+04
	-0.49	-9.984e+04	-0.49	-9.991e+04	-0.49	-1.000e+05	-0.50	-1.003e+05	-0.50	-1.009e+05	-0.52	-1.020e+05
	-0.52	-1.020e+05	-0.52	-1.021e+05	-0.52	-1.021e+05	-0.52	-1.023e+05	-0.52	-1.026e+05	-0.53	-1.031e+05
	-0.55	-1.042e+05	-0.56	-1.053e+05	-0.56	-1.054e+05	-0.56	-1.054e+05	-0.56	-1.055e+05	-0.56	-1.056e+05
	-0.57	-1.059e+05	-0.58	-1.065e+05	-0.59	-1.076e+05	-0.61	-1.087e+05	-0.61	-1.087e+05	-0.62	-1.088e+05
	-0.62	-1.088e+05	-0.62	-1.090e+05	-0.62	-1.093e+05	-0.64	-1.098e+05	-0.66	-1.109e+05	-0.66	-1.110e+05
	-0.66	-1.110e+05	-0.66	-1.111e+05	-0.67	-1.112e+05	-0.67	-1.115e+05	-0.69	-1.120e+05	-0.71	-1.132e+05
	-0.74	-1.143e+05	-0.77	-1.154e+05	-0.77	-1.154e+05	-0.77	-1.155e+05	-0.77	-1.155e+05	-0.77	-1.157e+05
	-0.78	-1.160e+05	-0.79	-1.165e+05	-0.83	-1.176e+05	-0.83	-1.177e+05	-0.83	-1.177e+05	-0.83	-1.178e+05
	-0.83	-1.179e+05	-0.84	-1.182e+05	-0.86	-1.187e+05	-0.86	-1.188e+05	-0.86	-1.188e+05	-0.87	-1.189e+05
	-0.87	-1.190e+05	-0.88	-1.193e+05	-0.90	-1.199e+05	-0.94	-1.210e+05	-0.94	-1.210e+05	-0.94	-1.210e+05
	-0.95	-1.211e+05	-0.95	-1.213e+05	-0.96	-1.215e+05	-0.97	-1.216e+05	-0.97	-1.216e+05	-0.98	-1.218e+05
	-0.99	-1.221e+05	-1.01	-1.226e+05	-1.02	-1.226e+05	-1.02	-1.227e+05	-1.02	-1.228e+05	-1.03	-1.229e+05
	-1.04	-1.232e+05	-1.04	-1.232e+05	-1.04	-1.232e+05	-1.05	-1.233e+05	-1.05	-1.233e+05	-1.06	-1.235e+05
	-1.07	-1.238e+05	-1.08	-1.238e+05	-1.08	-1.238e+05	-1.08	-1.239e+05	-1.09	-1.240e+05	-1.11	-1.243e+05
	-1.15	-1.249e+05	-1.15	-1.249e+05	-1.15	-1.250e+05	-1.16	-1.250e+05	-1.17	-1.252e+05	-1.19	-1.254e+05
	-1.23	-1.260e+05	-1.31	-1.271e+05	-1.31	-1.271e+05	-1.32	-1.272e+05	-1.33	-1.274e+05	-1.35	-1.276e+05
	-1.39	-1.282e+05	-1.47	-1.293e+05	-1.57	-1.304e+05						
Cmb	Sp. Dc	Tag. Fb										
	-1.57	-1.304e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
34	0.0	0.0	2.81e-04	69.8	8.43e-04	209.3	1.97e-03	488.4	4.21e-03	1046.5	8.71e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.09	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.13	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.17	4.346e+04	0.18	4.458e+04	0.18	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.22	5.351e+04	0.22	5.463e+04	0.22	5.574e+04
	0.23	5.686e+04	0.23	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.26	6.579e+04	0.27	6.691e+04	0.27	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.472e+04	0.31	7.584e+04
	0.31	7.695e+04	0.31	7.807e+04	0.31	7.810e+04	0.31	7.814e+04	0.31	7.821e+04	0.32	7.835e+04
	0.32	7.863e+04	0.32	7.919e+04	0.32	8.030e+04	0.33	8.142e+04	0.33	8.145e+04	0.33	8.149e+04
	0.33	8.156e+04	0.33	8.170e+04	0.33	8.198e+04	0.33	8.253e+04	0.34	8.365e+04	0.35	8.477e+04
	0.35	8.480e+04	0.35	8.484e+04	0.35	8.491e+04	0.35	8.505e+04	0.35	8.532e+04	0.35	8.588e+04
	0.35	8.592e+04	0.35	8.595e+04	0.35	8.602e+04	0.35	8.616e+04	0.36	8.644e+04	0.36	8.700e+04
	0.37	8.812e+04	0.37	8.923e+04	0.38	9.035e+04	0.39	9.146e+04	0.39	9.150e+04	0.39	9.153e+04
	0.39	9.160e+04	0.39	9.174e+04	0.39	9.202e+04	0.39	9.258e+04	0.40	9.370e+04	0.41	9.481e+04
	0.42	9.593e+04	0.42	9.596e+04	0.42	9.600e+04	0.42	9.607e+04	0.42	9.621e+04	0.42	9.624e+04
	0.42	9.628e+04	0.42	9.635e+04	0.42	9.638e+04	0.42	9.642e+04	0.42	9.649e+04	0.42	9.663e+04
	0.43	9.691e+04	0.43	9.694e+04	0.43	9.698e+04	0.43	9.705e+04	0.43	9.718e+04	0.43	9.746e+04
	0.44	9.802e+04	0.45	9.914e+04	0.45	9.917e+04	0.45	9.924e+04	0.46	9.938e+04	0.46	9.966e+04
	0.47	1.002e+05	0.48	1.013e+05	0.49	1.025e+05	0.51	1.036e+05	0.52	1.047e+05	0.54	1.058e+05
	0.54	1.058e+05	0.54	1.059e+05	0.54	1.059e+05	0.54	1.061e+05	0.54	1.064e+05	0.55	1.069e+05
	0.55	1.070e+05	0.55	1.070e+05	0.55	1.071e+05	0.55	1.072e+05	0.55	1.072e+05	0.56	1.073e+05
	0.56	1.074e+05	0.56	1.077e+05	0.57	1.083e+05	0.59	1.094e+05	0.59	1.094e+05	0.59	1.095e+05
	0.59	1.095e+05	0.59	1.097e+05	0.60	1.100e+05	0.61	1.105e+05	0.63	1.116e+05	0.64	1.127e+05
	0.66	1.139e+05	0.68	1.150e+05	0.70	1.161e+05	0.70	1.161e+05	0.70	1.162e+05	0.70	1.162e+05
	0.71	1.164e+05	0.71	1.166e+05	0.72	1.172e+05	0.74	1.183e+05	0.74	1.184e+05	0.74	1.184e+05
	0.75	1.185e+05	0.75	1.186e+05	0.75	1.189e+05	0.77	1.194e+05	0.79	1.206e+05	0.79	1.206e+05
	0.79	1.206e+05	0.79	1.207e+05	0.80	1.208e+05	0.80	1.211e+05	0.80	1.211e+05	0.81	1.212e+05
	0.81	1.213e+05	0.81	1.214e+05	0.82	1.217e+05	0.84	1.222e+05	0.84	1.223e+05	0.84	1.223e+05
	0.84	1.224e+05	0.84	1.225e+05	0.85	1.228e+05	0.87	1.233e+05	0.91	1.245e+05	0.91	1.245e+05
	0.91	1.245e+05	0.92	1.246e+05	0.92	1.247e+05	0.93	1.250e+05	0.96	1.256e+05	1.01	1.267e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	1.01	1.267e+05	1.01	1.268e+05	1.01	1.268e+05	1.02	1.269e+05	1.02	1.269e+05	1.02	1.269e+05
	1.03	1.270e+05	1.03	1.271e+05	1.05	1.274e+05	1.10	1.280e+05				
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.10	1.280e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
35	0.0	0.0	-2.80e-04	-69.8	-8.40e-04	-209.3	-1.96e-03	-488.4	-4.20e-03	-1046.5	-8.68e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.08	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.13	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.17	-4.346e+04	-0.18	-4.458e+04	-0.18	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.21	-5.351e+04	-0.22	-5.463e+04	-0.22	-5.574e+04
	-0.23	-5.686e+04	-0.23	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.26	-6.579e+04	-0.27	-6.691e+04	-0.27	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.584e+04
	-0.30	-7.587e+04	-0.31	-7.591e+04	-0.31	-7.598e+04	-0.31	-7.612e+04	-0.31	-7.639e+04	-0.31	-7.695e+04
	-0.31	-7.807e+04	-0.32	-7.919e+04	-0.32	-8.030e+04	-0.33	-8.142e+04	-0.33	-8.145e+04	-0.33	-8.152e+04
	-0.33	-8.166e+04	-0.33	-8.194e+04	-0.33	-8.250e+04	-0.34	-8.362e+04	-0.34	-8.473e+04	-0.35	-8.477e+04
	-0.35	-8.480e+04	-0.35	-8.487e+04	-0.35	-8.501e+04	-0.35	-8.529e+04	-0.35	-8.585e+04	-0.36	-8.696e+04
	-0.36	-8.700e+04	-0.36	-8.703e+04	-0.36	-8.710e+04	-0.36	-8.724e+04	-0.36	-8.752e+04	-0.36	-8.808e+04
	-0.37	-8.920e+04	-0.37	-9.031e+04	-0.38	-9.143e+04	-0.38	-9.146e+04	-0.38	-9.150e+04	-0.38	-9.157e+04
	-0.38	-9.171e+04	-0.38	-9.199e+04	-0.38	-9.202e+04	-0.38	-9.206e+04	-0.38	-9.213e+04	-0.39	-9.227e+04
	-0.39	-9.255e+04	-0.39	-9.258e+04	-0.39	-9.262e+04	-0.39	-9.269e+04	-0.39	-9.282e+04	-0.39	-9.310e+04
	-0.40	-9.366e+04	-0.40	-9.478e+04	-0.40	-9.481e+04	-0.40	-9.485e+04	-0.41	-9.492e+04	-0.41	-9.506e+04
	-0.41	-9.509e+04	-0.41	-9.513e+04	-0.41	-9.520e+04	-0.41	-9.534e+04	-0.41	-9.562e+04	-0.42	-9.617e+04
	-0.43	-9.729e+04	-0.43	-9.732e+04	-0.43	-9.736e+04	-0.43	-9.743e+04	-0.43	-9.757e+04	-0.43	-9.785e+04
	-0.44	-9.841e+04	-0.45	-9.952e+04	-0.47	-1.006e+05	-0.47	-1.007e+05	-0.47	-1.007e+05	-0.47	-1.008e+05
	-0.47	-1.009e+05	-0.47	-1.012e+05	-0.48	-1.018e+05	-0.49	-1.029e+05	-0.51	-1.040e+05	-0.52	-1.051e+05
	-0.52	-1.051e+05	-0.52	-1.052e+05	-0.52	-1.052e+05	-0.53	-1.054e+05	-0.53	-1.057e+05	-0.54	-1.062e+05
	-0.55	-1.073e+05	-0.55	-1.074e+05	-0.55	-1.074e+05	-0.56	-1.076e+05	-0.56	-1.079e+05	-0.57	-1.084e+05
	-0.59	-1.095e+05	-0.59	-1.096e+05	-0.59	-1.096e+05	-0.59	-1.097e+05	-0.59	-1.098e+05	-0.59	-1.101e+05
	-0.60	-1.106e+05	-0.60	-1.107e+05	-0.60	-1.107e+05	-0.61	-1.108e+05	-0.61	-1.109e+05	-0.61	-1.112e+05
	-0.62	-1.118e+05	-0.64	-1.129e+05	-0.65	-1.129e+05	-0.65	-1.130e+05	-0.65	-1.130e+05	-0.65	-1.132e+05
	-0.66	-1.134e+05	-0.67	-1.140e+05	-0.69	-1.151e+05	-0.69	-1.151e+05	-0.69	-1.152e+05	-0.69	-1.153e+05
	-0.70	-1.154e+05	-0.70	-1.157e+05	-0.71	-1.157e+05	-0.71	-1.157e+05	-0.71	-1.158e+05	-0.71	-1.160e+05
	-0.72	-1.162e+05	-0.72	-1.163e+05	-0.72	-1.163e+05	-0.73	-1.164e+05	-0.73	-1.165e+05	-0.74	-1.168e+05
	-0.76	-1.173e+05	-0.81	-1.185e+05	-0.81	-1.185e+05	-0.81	-1.185e+05	-0.81	-1.186e+05	-0.82	-1.187e+05
	-0.83	-1.190e+05	-0.86	-1.196e+05	-0.86	-1.196e+05	-0.86	-1.196e+05	-0.87	-1.197e+05	-0.87	-1.199e+05
	-0.89	-1.201e+05	-0.91	-1.207e+05	-0.97	-1.218e+05	-0.97	-1.218e+05	-0.98	-1.219e+05	-0.98	-1.221e+05
	-1.00	-1.223e+05	-1.00	-1.224e+05	-1.00	-1.224e+05	-1.00	-1.224e+05	-1.01	-1.225e+05	-1.01	-1.225e+05
	-1.02	-1.227e+05	-1.04	-1.230e+05	-1.04	-1.230e+05	-1.04	-1.230e+05	-1.05	-1.231e+05	-1.05	-1.232e+05
	-1.07	-1.235e+05	-1.11	-1.241e+05	-1.18	-1.252e+05	-1.26	-1.263e+05	-1.33	-1.274e+05	-1.34	-1.275e+05
	-1.34	-1.275e+05	-1.34	-1.276e+05	-1.35	-1.277e+05	-1.37	-1.280e+05	-1.41	-1.285e+05	-1.50	-1.297e+05
	-1.50	-1.297e+05	-1.51	-1.298e+05	-1.52	-1.299e+05	-1.54	-1.302e+05	-1.58	-1.307e+05	-1.66	-1.319e+05
	-1.79	-1.330e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.79	-1.330e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
36	0.0	0.0	2.80e-04	69.8	8.40e-04	209.3	1.96e-03	488.4	4.20e-03	1046.5	8.68e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.08	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.13	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.17	4.346e+04	0.18	4.458e+04	0.18	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.21	5.351e+04	0.22	5.463e+04	0.22	5.574e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.23	5.686e+04	0.23	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.26	6.579e+04	0.27	6.691e+04	0.27	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.472e+04	0.30	7.584e+04
	0.30	7.587e+04	0.30	7.594e+04	0.31	7.608e+04	0.31	7.636e+04	0.31	7.692e+04	0.31	7.803e+04
	0.32	7.915e+04	0.32	8.027e+04	0.33	8.138e+04	0.33	8.250e+04	0.34	8.362e+04	0.34	8.473e+04
	0.34	8.477e+04	0.34	8.480e+04	0.34	8.487e+04	0.34	8.501e+04	0.34	8.529e+04	0.35	8.585e+04
	0.35	8.588e+04	0.35	8.592e+04	0.35	8.599e+04	0.35	8.613e+04	0.35	8.616e+04	0.35	8.620e+04
	0.35	8.627e+04	0.35	8.641e+04	0.35	8.669e+04	0.35	8.724e+04	0.36	8.836e+04	0.37	8.948e+04
	0.37	9.059e+04	0.38	9.171e+04	0.38	9.174e+04	0.38	9.181e+04	0.38	9.195e+04	0.38	9.223e+04
	0.39	9.279e+04	0.39	9.391e+04	0.39	9.394e+04	0.39	9.398e+04	0.39	9.405e+04	0.40	9.419e+04
	0.40	9.446e+04	0.40	9.502e+04	0.41	9.614e+04	0.42	9.725e+04	0.42	9.729e+04	0.42	9.732e+04
	0.42	9.739e+04	0.42	9.753e+04	0.42	9.781e+04	0.42	9.837e+04	0.43	9.949e+04	0.43	9.952e+04
	0.43	9.959e+04	0.43	9.973e+04	0.44	1.000e+05	0.44	1.006e+05	0.45	1.017e+05	0.45	1.017e+05
	0.45	1.018e+05	0.45	1.018e+05	0.45	1.019e+05	0.45	1.019e+05	0.45	1.020e+05	0.45	1.021e+05
	0.46	1.024e+05	0.46	1.029e+05	0.47	1.041e+05	0.48	1.052e+05	0.50	1.063e+05	0.50	1.063e+05
	0.50	1.064e+05	0.50	1.064e+05	0.50	1.066e+05	0.50	1.068e+05	0.50	1.069e+05	0.50	1.069e+05
	0.51	1.070e+05	0.51	1.071e+05	0.51	1.072e+05	0.51	1.072e+05	0.51	1.073e+05	0.51	1.074e+05
	0.52	1.077e+05	0.52	1.082e+05	0.54	1.094e+05	0.54	1.094e+05	0.54	1.094e+05	0.54	1.095e+05
	0.54	1.096e+05	0.55	1.099e+05	0.56	1.105e+05	0.57	1.116e+05	0.59	1.127e+05	0.59	1.127e+05
	0.59	1.128e+05	0.59	1.128e+05	0.59	1.129e+05	0.60	1.131e+05	0.60	1.133e+05	0.61	1.139e+05
	0.63	1.150e+05	0.63	1.150e+05	0.63	1.151e+05	0.63	1.151e+05	0.63	1.153e+05	0.64	1.156e+05
	0.65	1.161e+05	0.65	1.162e+05	0.65	1.162e+05	0.65	1.163e+05	0.66	1.164e+05	0.66	1.164e+05
	0.66	1.165e+05	0.66	1.165e+05	0.66	1.167e+05	0.67	1.170e+05	0.67	1.170e+05	0.67	1.170e+05
	0.67	1.171e+05	0.68	1.172e+05	0.68	1.175e+05	0.70	1.181e+05	0.73	1.192e+05	0.73	1.192e+05
	0.73	1.193e+05	0.73	1.193e+05	0.74	1.195e+05	0.74	1.195e+05	0.74	1.195e+05	0.74	1.196e+05
	0.74	1.198e+05	0.75	1.200e+05	0.77	1.206e+05	0.81	1.217e+05	0.81	1.217e+05	0.81	1.218e+05
	0.81	1.218e+05	0.81	1.220e+05	0.82	1.223e+05	0.84	1.228e+05	0.84	1.229e+05	0.85	1.229e+05
	0.85	1.230e+05	0.85	1.231e+05	0.87	1.234e+05	0.89	1.239e+05	0.89	1.240e+05	0.89	1.240e+05
	0.89	1.241e+05	0.90	1.242e+05	0.91	1.245e+05	0.94	1.251e+05	0.94	1.251e+05	0.94	1.251e+05
	0.94	1.252e+05	0.95	1.253e+05	0.96	1.256e+05	0.99	1.262e+05	1.06	1.273e+05	1.07	1.273e+05
	1.07	1.274e+05	1.07	1.274e+05	1.09	1.276e+05						
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.09	1.276e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
37	0.0	0.0	-3.28e-04	-69.8	-9.84e-04	-209.3	-2.30e-03	-488.4	-4.92e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.06	-1.333e+04	-0.07	-1.444e+04	-0.07	-1.556e+04
	-0.08	-1.667e+04	-0.08	-1.779e+04	-0.09	-1.891e+04	-0.09	-2.002e+04	-0.10	-2.114e+04	-0.10	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.12	-2.560e+04	-0.13	-2.672e+04	-0.13	-2.784e+04	-0.14	-2.895e+04
	-0.14	-3.007e+04	-0.15	-3.119e+04	-0.15	-3.230e+04	-0.16	-3.342e+04	-0.16	-3.453e+04	-0.17	-3.565e+04
	-0.17	-3.677e+04	-0.18	-3.788e+04	-0.18	-3.900e+04	-0.19	-4.012e+04	-0.19	-4.123e+04	-0.20	-4.235e+04
	-0.20	-4.346e+04	-0.21	-4.458e+04	-0.22	-4.570e+04	-0.22	-4.681e+04	-0.23	-4.793e+04	-0.23	-4.905e+04
	-0.24	-5.016e+04	-0.24	-5.128e+04	-0.25	-5.239e+04	-0.25	-5.351e+04	-0.26	-5.463e+04	-0.26	-5.574e+04
	-0.27	-5.686e+04	-0.27	-5.798e+04	-0.28	-5.909e+04	-0.28	-6.021e+04	-0.29	-6.132e+04	-0.29	-6.244e+04
	-0.30	-6.356e+04	-0.30	-6.467e+04	-0.31	-6.579e+04	-0.32	-6.691e+04	-0.32	-6.802e+04	-0.33	-6.914e+04
	-0.33	-7.026e+04	-0.34	-7.137e+04	-0.34	-7.249e+04	-0.34	-7.252e+04	-0.34	-7.256e+04	-0.34	-7.263e+04
	-0.34	-7.277e+04	-0.34	-7.305e+04	-0.35	-7.360e+04	-0.35	-7.472e+04	-0.36	-7.584e+04	-0.36	-7.587e+04
	-0.36	-7.591e+04	-0.36	-7.598e+04	-0.36	-7.612e+04	-0.36	-7.639e+04	-0.37	-7.695e+04	-0.37	-7.807e+04
	-0.37	-7.810e+04	-0.37	-7.814e+04	-0.37	-7.821e+04	-0.38	-7.835e+04	-0.38	-7.863e+04	-0.38	-7.919e+04
	-0.39	-8.030e+04	-0.40	-8.142e+04	-0.40	-8.253e+04	-0.41	-8.365e+04	-0.41	-8.369e+04	-0.41	-8.372e+04
	-0.41	-8.379e+04	-0.42	-8.393e+04	-0.42	-8.421e+04	-0.42	-8.477e+04	-0.42	-8.480e+04	-0.42	-8.484e+04
	-0.42	-8.491e+04	-0.43	-8.505e+04	-0.43	-8.532e+04	-0.43	-8.536e+04	-0.43	-8.539e+04	-0.43	-8.546e+04
	-0.43	-8.560e+04	-0.43	-8.588e+04	-0.44	-8.644e+04	-0.45	-8.756e+04	-0.46	-8.867e+04	-0.48	-8.979e+04
	-0.49	-9.091e+04	-0.49	-9.094e+04	-0.49	-9.098e+04	-0.49	-9.105e+04	-0.49	-9.119e+04	-0.50	-9.146e+04
	-0.50	-9.202e+04	-0.50	-9.206e+04	-0.50	-9.209e+04	-0.51	-9.216e+04	-0.51	-9.230e+04	-0.51	-9.258e+04
	-0.52	-9.314e+04	-0.54	-9.425e+04	-0.54	-9.429e+04	-0.54	-9.432e+04	-0.54	-9.439e+04	-0.54	-9.453e+04
	-0.54	-9.481e+04	-0.54	-9.485e+04	-0.54	-9.488e+04	-0.55	-9.495e+04	-0.55	-9.509e+04	-0.55	-9.513e+04
	-0.55	-9.516e+04	-0.55	-9.523e+04	-0.56	-9.537e+04	-0.56	-9.565e+04	-0.57	-9.621e+04	-0.60	-9.732e+04
	-0.63	-9.844e+04	-0.65	-9.956e+04	-0.65	-9.959e+04	-0.65	-9.963e+04	-0.66	-9.970e+04	-0.66	-9.984e+04
	-0.67	-1.001e+05	-0.68	-1.007e+05	-0.71	-1.018e+05	-0.71	-1.018e+05	-0.71	-1.019e+05	-0.71	-1.019e+05
	-0.72	-1.021e+05	-0.73	-1.023e+05	-0.74	-1.029e+05	-0.77	-1.040e+05	-0.81	-1.051e+05	-0.81	-1.052e+05
	-0.81	-1.052e+05	-0.81	-1.053e+05	-0.82	-1.054e+05	-0.83	-1.057e+05	-0.83	-1.057e+05	-0.83	-1.058e+05
	-0.83	-1.058e+05	-0.84	-1.060e+05	-0.84	-1.060e+05	-0.84	-1.060e+05	-0.84	-1.061e+05	-0.85	-1.063e+05
	-0.86	-1.065e+05	-0.88	-1.071e+05	-0.94	-1.082e+05	-0.94	-1.082e+05	-0.94	-1.083e+05	-0.95	-1.083e+05
	-0.96	-1.085e+05	-0.97	-1.088e+05	-1.01	-1.093e+05	-1.10	-1.104e+05	-1.11	-1.105e+05		
Cmb	Sp. Dc	Tag. Fb										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-1.11	-1.105e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
38	0.0	0.0	3.28e-04	69.8	9.84e-04	209.3	2.30e-03	488.4	4.92e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.07	1.556e+04
	0.08	1.667e+04	0.08	1.779e+04	0.09	1.891e+04	0.09	2.002e+04	0.10	2.114e+04	0.10	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.13	2.784e+04	0.14	2.895e+04
	0.14	3.007e+04	0.15	3.119e+04	0.15	3.230e+04	0.16	3.342e+04	0.16	3.453e+04	0.17	3.565e+04
	0.17	3.677e+04	0.18	3.788e+04	0.18	3.900e+04	0.19	4.012e+04	0.19	4.123e+04	0.20	4.235e+04
	0.21	4.346e+04	0.21	4.458e+04	0.22	4.570e+04	0.22	4.681e+04	0.23	4.793e+04	0.23	4.905e+04
	0.24	5.016e+04	0.24	5.128e+04	0.25	5.239e+04	0.25	5.351e+04	0.26	5.463e+04	0.26	5.574e+04
	0.27	5.686e+04	0.27	5.798e+04	0.28	5.909e+04	0.28	6.021e+04	0.29	6.132e+04	0.29	6.244e+04
	0.30	6.356e+04	0.31	6.467e+04	0.31	6.579e+04	0.32	6.691e+04	0.32	6.802e+04	0.33	6.914e+04
	0.33	7.026e+04	0.34	7.137e+04	0.34	7.249e+04	0.35	7.360e+04	0.35	7.472e+04	0.36	7.584e+04
	0.36	7.587e+04	0.36	7.591e+04	0.36	7.598e+04	0.36	7.612e+04	0.36	7.639e+04	0.37	7.695e+04
	0.37	7.699e+04	0.37	7.706e+04	0.37	7.720e+04	0.37	7.748e+04	0.37	7.803e+04	0.38	7.915e+04
	0.39	8.027e+04	0.40	8.138e+04	0.40	8.250e+04	0.40	8.253e+04	0.41	8.257e+04	0.41	8.264e+04
	0.41	8.278e+04	0.41	8.306e+04	0.41	8.362e+04	0.42	8.473e+04	0.43	8.585e+04	0.44	8.696e+04
	0.44	8.700e+04	0.44	8.703e+04	0.44	8.710e+04	0.44	8.724e+04	0.45	8.752e+04	0.45	8.808e+04
	0.45	8.812e+04	0.45	8.819e+04	0.45	8.832e+04	0.46	8.860e+04	0.46	8.864e+04	0.46	8.867e+04
	0.46	8.874e+04	0.46	8.888e+04	0.46	8.916e+04	0.47	8.972e+04	0.47	8.975e+04	0.47	8.979e+04
	0.47	8.986e+04	0.47	9.000e+04	0.48	9.028e+04	0.48	9.084e+04	0.50	9.195e+04	0.50	9.199e+04
	0.50	9.202e+04	0.50	9.209e+04	0.50	9.223e+04	0.51	9.251e+04	0.52	9.307e+04	0.55	9.419e+04
	0.57	9.530e+04	0.60	9.642e+04	0.60	9.645e+04	0.60	9.649e+04	0.60	9.656e+04	0.60	9.670e+04
	0.61	9.698e+04	0.62	9.753e+04	0.65	9.865e+04	0.68	9.977e+04	0.68	9.980e+04	0.69	9.984e+04
	0.69	9.991e+04	0.69	1.000e+05	0.70	1.003e+05	0.70	1.004e+05	0.70	1.004e+05	0.70	1.005e+05
	0.71	1.006e+05	0.72	1.009e+05	0.73	1.014e+05	0.77	1.026e+05	0.80	1.037e+05	0.84	1.048e+05
	0.84	1.048e+05	0.84	1.049e+05	0.84	1.049e+05	0.85	1.051e+05	0.85	1.051e+05	0.85	1.052e+05
	0.86	1.053e+05	0.87	1.056e+05	0.89	1.061e+05	0.94	1.073e+05	0.94	1.073e+05	0.94	1.073e+05
	0.94	1.074e+05	0.95	1.075e+05	0.97	1.078e+05	0.97	1.079e+05	0.97	1.079e+05	0.97	1.079e+05
	0.98	1.080e+05	0.98	1.080e+05	0.99	1.082e+05	1.01	1.085e+05	1.05	1.090e+05	1.14	1.101e+05
	1.14	1.102e+05	1.15	1.102e+05	1.16	1.104e+05	1.19	1.106e+05	1.24	1.112e+05		
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.24	1.112e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
39	0.0	0.0	-3.32e-04	-69.8	-9.95e-04	-209.3	-2.32e-03	-488.4	-4.98e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.06	-1.333e+04	-0.07	-1.444e+04	-0.07	-1.556e+04
	-0.08	-1.667e+04	-0.08	-1.779e+04	-0.09	-1.891e+04	-0.10	-2.002e+04	-0.10	-2.114e+04	-0.11	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.12	-2.560e+04	-0.13	-2.672e+04	-0.13	-2.784e+04	-0.14	-2.895e+04
	-0.14	-3.007e+04	-0.15	-3.119e+04	-0.15	-3.230e+04	-0.16	-3.342e+04	-0.16	-3.453e+04	-0.17	-3.565e+04
	-0.18	-3.677e+04	-0.18	-3.788e+04	-0.19	-3.900e+04	-0.19	-4.012e+04	-0.20	-4.123e+04	-0.20	-4.235e+04
	-0.21	-4.346e+04	-0.21	-4.458e+04	-0.22	-4.570e+04	-0.22	-4.681e+04	-0.23	-4.793e+04	-0.23	-4.905e+04
	-0.24	-5.016e+04	-0.24	-5.128e+04	-0.25	-5.239e+04	-0.25	-5.351e+04	-0.26	-5.463e+04	-0.27	-5.574e+04
	-0.27	-5.686e+04	-0.28	-5.798e+04	-0.28	-5.909e+04	-0.29	-6.021e+04	-0.29	-6.132e+04	-0.30	-6.244e+04
	-0.30	-6.356e+04	-0.31	-6.467e+04	-0.31	-6.579e+04	-0.32	-6.691e+04	-0.32	-6.802e+04	-0.33	-6.914e+04
	-0.33	-7.026e+04	-0.34	-7.137e+04	-0.34	-7.141e+04	-0.34	-7.144e+04	-0.34	-7.151e+04	-0.34	-7.165e+04
	-0.34	-7.193e+04	-0.35	-7.249e+04	-0.35	-7.360e+04	-0.36	-7.472e+04	-0.37	-7.584e+04	-0.37	-7.587e+04
	-0.37	-7.591e+04	-0.37	-7.598e+04	-0.37	-7.612e+04	-0.37	-7.639e+04	-0.37	-7.695e+04	-0.37	-7.699e+04
	-0.37	-7.702e+04	-0.37	-7.709e+04	-0.37	-7.723e+04	-0.38	-7.751e+04	-0.38	-7.807e+04	-0.39	-7.919e+04
	-0.40	-8.030e+04	-0.40	-8.142e+04	-0.41	-8.253e+04	-0.41	-8.257e+04	-0.41	-8.264e+04	-0.41	-8.278e+04
	-0.42	-8.306e+04	-0.42	-8.362e+04	-0.43	-8.473e+04	-0.43	-8.477e+04	-0.43	-8.480e+04	-0.43	-8.487e+04
	-0.44	-8.501e+04	-0.44	-8.529e+04	-0.44	-8.585e+04	-0.46	-8.696e+04	-0.47	-8.808e+04	-0.48	-8.920e+04
	-0.50	-9.031e+04	-0.50	-9.035e+04	-0.50	-9.038e+04	-0.50	-9.045e+04	-0.50	-9.059e+04	-0.50	-9.087e+04
	-0.51	-9.143e+04	-0.51	-9.146e+04	-0.51	-9.153e+04	-0.51	-9.167e+04	-0.52	-9.195e+04	-0.53	-9.251e+04
	-0.53	-9.255e+04	-0.53	-9.258e+04	-0.53	-9.265e+04	-0.53	-9.279e+04	-0.53	-9.307e+04	-0.54	-9.363e+04
	-0.54	-9.366e+04	-0.54	-9.370e+04	-0.54	-9.377e+04	-0.55	-9.391e+04	-0.55	-9.419e+04	-0.55	-9.422e+04
	-0.55	-9.425e+04	-0.55	-9.432e+04	-0.56	-9.446e+04	-0.56	-9.474e+04	-0.58	-9.530e+04	-0.60	-9.642e+04
	-0.63	-9.753e+04	-0.66	-9.865e+04	-0.66	-9.868e+04	-0.66	-9.872e+04	-0.66	-9.875e+04	-0.66	-9.882e+04
	-0.66	-9.896e+04	-0.67	-9.924e+04	-0.69	-9.980e+04	-0.71	-1.009e+05	-0.74	-1.020e+05	-0.75	-1.021e+05
	-0.75	-1.021e+05	-0.75	-1.022e+05	-0.75	-1.023e+05	-0.76	-1.026e+05	-0.78	-1.032e+05	-0.81	-1.043e+05
	-0.81	-1.043e+05	-0.81	-1.044e+05	-0.82	-1.044e+05	-0.82	-1.044e+05	-0.82	-1.045e+05	-0.82	-1.047e+05
	-0.83	-1.049e+05	-0.83	-1.050e+05	-0.84	-1.050e+05	-0.84	-1.050e+05	-0.84	-1.051e+05	-0.85	-1.052e+05
	-0.86	-1.055e+05	-0.88	-1.061e+05	-0.93	-1.072e+05	-0.93	-1.072e+05	-0.94	-1.073e+05	-0.94	-1.073e+05
	-0.95	-1.075e+05	-0.95	-1.075e+05	-0.95	-1.075e+05	-0.96	-1.076e+05	-0.96	-1.078e+05	-0.98	-1.080e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-1.01	-1.086e+05	-1.08	-1.097e+05	-1.09	-1.097e+05	-1.09	-1.098e+05	-1.09	-1.098e+05	-1.11	-1.100e+05
	-1.11	-1.100e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.11	-1.100e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
40	0.0	0.0	3.32e-04	69.8	9.95e-04	209.3	2.32e-03	488.4	4.98e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.07	1.556e+04
	0.08	1.667e+04	0.08	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.13	2.784e+04	0.14	2.895e+04
	0.14	3.007e+04	0.15	3.119e+04	0.15	3.230e+04	0.16	3.342e+04	0.16	3.453e+04	0.17	3.565e+04
	0.18	3.677e+04	0.18	3.788e+04	0.19	3.900e+04	0.19	4.012e+04	0.20	4.123e+04	0.20	4.235e+04
	0.21	4.346e+04	0.21	4.458e+04	0.22	4.570e+04	0.22	4.681e+04	0.23	4.793e+04	0.23	4.905e+04
	0.24	5.016e+04	0.24	5.128e+04	0.25	5.239e+04	0.26	5.351e+04	0.26	5.463e+04	0.27	5.574e+04
	0.27	5.686e+04	0.28	5.798e+04	0.28	5.909e+04	0.29	6.021e+04	0.29	6.132e+04	0.30	6.244e+04
	0.30	6.356e+04	0.31	6.467e+04	0.31	6.579e+04	0.32	6.691e+04	0.32	6.802e+04	0.33	6.914e+04
	0.34	7.026e+04	0.34	7.137e+04	0.35	7.249e+04	0.35	7.360e+04	0.36	7.472e+04	0.36	7.475e+04
	0.36	7.479e+04	0.36	7.486e+04	0.36	7.500e+04	0.36	7.528e+04	0.36	7.531e+04	0.36	7.538e+04
	0.36	7.552e+04	0.36	7.580e+04	0.37	7.636e+04	0.37	7.639e+04	0.37	7.643e+04	0.37	7.650e+04
	0.37	7.664e+04	0.37	7.692e+04	0.38	7.748e+04	0.38	7.859e+04	0.39	7.971e+04	0.40	8.082e+04
	0.40	8.086e+04	0.40	8.089e+04	0.40	8.096e+04	0.40	8.110e+04	0.40	8.138e+04	0.41	8.194e+04
	0.42	8.306e+04	0.43	8.417e+04	0.44	8.529e+04	0.45	8.641e+04	0.46	8.752e+04	0.46	8.756e+04
	0.46	8.763e+04	0.46	8.777e+04	0.46	8.780e+04	0.46	8.784e+04	0.46	8.791e+04	0.46	8.805e+04
	0.46	8.832e+04	0.46	8.836e+04	0.47	8.839e+04	0.47	8.846e+04	0.47	8.860e+04	0.47	8.888e+04
	0.48	8.944e+04	0.49	9.056e+04	0.49	9.059e+04	0.49	9.063e+04	0.49	9.070e+04	0.49	9.073e+04
	0.49	9.077e+04	0.49	9.084e+04	0.50	9.087e+04	0.50	9.091e+04	0.50	9.098e+04	0.50	9.112e+04
	0.51	9.139e+04	0.51	9.143e+04	0.51	9.150e+04	0.51	9.164e+04	0.52	9.192e+04	0.53	9.248e+04
	0.56	9.359e+04	0.58	9.471e+04	0.61	9.582e+04	0.61	9.586e+04	0.61	9.589e+04	0.61	9.596e+04
	0.61	9.610e+04	0.62	9.638e+04	0.64	9.694e+04	0.66	9.806e+04	0.69	9.917e+04	0.70	9.921e+04
	0.70	9.924e+04	0.70	9.931e+04	0.70	9.945e+04	0.70	9.949e+04	0.71	9.956e+04	0.71	9.970e+04
	0.71	9.973e+04	0.71	9.977e+04	0.71	9.984e+04	0.72	9.998e+04	0.73	1.003e+05	0.74	1.008e+05
	0.78	1.019e+05	0.81	1.030e+05	0.85	1.042e+05	0.85	1.042e+05	0.85	1.042e+05	0.86	1.043e+05
	0.86	1.044e+05	0.86	1.045e+05	0.86	1.045e+05	0.87	1.047e+05	0.88	1.050e+05	0.90	1.055e+05
	0.95	1.066e+05	0.96	1.067e+05	0.96	1.067e+05	0.96	1.068e+05	0.97	1.069e+05	0.98	1.072e+05
	1.01	1.078e+05	1.02	1.078e+05	1.02	1.079e+05	1.03	1.080e+05	1.04	1.083e+05	1.08	1.088e+05
	1.08	1.089e+05	1.09	1.089e+05	1.09	1.090e+05	1.10	1.091e+05	1.12	1.094e+05	1.17	1.100e+05
	1.17	1.100e+05	1.17	1.100e+05	1.18	1.101e+05	1.19	1.102e+05	1.22	1.105e+05	1.28	1.111e+05
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.28	1.111e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
41	0.0	0.0	-2.83e-04	-69.8	-8.49e-04	-209.3	-1.98e-03	-488.4	-4.25e-03	-1046.5	-8.77e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.14	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.18	-4.346e+04	-0.18	-4.458e+04	-0.19	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.23	-5.574e+04
	-0.23	-5.686e+04	-0.24	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.27	-6.579e+04	-0.27	-6.691e+04	-0.28	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.479e+04	-0.30	-7.486e+04	-0.30	-7.500e+04	-0.30	-7.503e+04	-0.30	-7.507e+04	-0.30	-7.510e+04
	-0.31	-7.517e+04	-0.31	-7.521e+04	-0.31	-7.528e+04	-0.31	-7.542e+04	-0.31	-7.570e+04	-0.31	-7.625e+04
	-0.32	-7.737e+04	-0.32	-7.849e+04	-0.33	-7.960e+04	-0.33	-8.072e+04	-0.33	-8.075e+04	-0.33	-8.079e+04
	-0.33	-8.086e+04	-0.33	-8.100e+04	-0.33	-8.128e+04	-0.34	-8.184e+04	-0.34	-8.295e+04	-0.35	-8.407e+04
	-0.36	-8.519e+04	-0.36	-8.630e+04	-0.36	-8.634e+04	-0.36	-8.637e+04	-0.36	-8.644e+04	-0.36	-8.658e+04
	-0.37	-8.686e+04	-0.37	-8.742e+04	-0.38	-8.853e+04	-0.38	-8.857e+04	-0.38	-8.864e+04	-0.38	-8.878e+04
	-0.38	-8.906e+04	-0.39	-8.962e+04	-0.39	-9.073e+04	-0.39	-9.077e+04	-0.39	-9.080e+04	-0.39	-9.084e+04
	-0.40	-9.091e+04	-0.40	-9.105e+04	-0.40	-9.132e+04	-0.40	-9.136e+04	-0.40	-9.143e+04	-0.40	-9.157e+04
	-0.40	-9.185e+04	-0.41	-9.241e+04	-0.42	-9.352e+04	-0.42	-9.356e+04	-0.42	-9.359e+04	-0.42	-9.366e+04
	-0.42	-9.380e+04	-0.43	-9.408e+04	-0.43	-9.464e+04	-0.45	-9.575e+04	-0.45	-9.579e+04	-0.45	-9.582e+04
	-0.45	-9.589e+04	-0.45	-9.603e+04	-0.45	-9.631e+04	-0.46	-9.687e+04	-0.47	-9.799e+04	-0.47	-9.802e+04
	-0.47	-9.809e+04	-0.48	-9.823e+04	-0.48	-9.851e+04	-0.49	-9.907e+04	-0.50	-1.002e+05	-0.51	-1.013e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.53	-1.024e+05	-0.53	-1.025e+05	-0.53	-1.025e+05	-0.53	-1.026e+05	-0.53	-1.027e+05	-0.53	-1.030e+05
	-0.54	-1.035e+05	-0.54	-1.036e+05	-0.54	-1.036e+05	-0.54	-1.037e+05	-0.54	-1.038e+05	-0.55	-1.041e+05
	-0.55	-1.041e+05	-0.55	-1.042e+05	-0.55	-1.042e+05	-0.55	-1.043e+05	-0.55	-1.044e+05	-0.56	-1.047e+05
	-0.57	-1.053e+05	-0.58	-1.064e+05	-0.60	-1.075e+05	-0.60	-1.075e+05	-0.60	-1.076e+05	-0.60	-1.076e+05
	-0.60	-1.078e+05	-0.61	-1.081e+05	-0.61	-1.081e+05	-0.61	-1.081e+05	-0.61	-1.082e+05	-0.61	-1.083e+05
	-0.62	-1.086e+05	-0.63	-1.092e+05	-0.65	-1.103e+05	-0.65	-1.103e+05	-0.65	-1.104e+05	-0.66	-1.104e+05
	-0.66	-1.106e+05	-0.67	-1.109e+05	-0.68	-1.114e+05	-0.70	-1.125e+05	-0.73	-1.136e+05	-0.73	-1.137e+05
	-0.73	-1.137e+05	-0.74	-1.138e+05	-0.74	-1.139e+05	-0.74	-1.140e+05	-0.74	-1.140e+05	-0.75	-1.142e+05
	-0.75	-1.145e+05	-0.77	-1.150e+05	-0.80	-1.161e+05	-0.80	-1.162e+05	-0.80	-1.162e+05	-0.80	-1.163e+05
	-0.81	-1.164e+05	-0.82	-1.167e+05	-0.83	-1.172e+05	-0.83	-1.173e+05	-0.83	-1.173e+05	-0.84	-1.174e+05
	-0.84	-1.175e+05	-0.85	-1.178e+05	-0.87	-1.184e+05	-0.91	-1.195e+05	-0.91	-1.195e+05	-0.92	-1.196e+05
	-0.92	-1.197e+05	-0.93	-1.200e+05	-0.93	-1.200e+05	-0.94	-1.201e+05	-0.94	-1.201e+05	-0.94	-1.203e+05
	-0.96	-1.206e+05	-0.98	-1.211e+05	-0.98	-1.211e+05	-0.98	-1.212e+05	-0.99	-1.213e+05	-0.99	-1.214e+05
	-1.01	-1.217e+05	-1.04	-1.222e+05	-1.04	-1.223e+05	-1.04	-1.223e+05	-1.04	-1.224e+05	-1.05	-1.225e+05
	-1.07	-1.228e+05	-1.07	-1.228e+05	-1.07	-1.229e+05	-1.08	-1.229e+05	-1.09	-1.231e+05	-1.11	-1.233e+05
	-1.11	-1.234e+05	-1.11	-1.234e+05	-1.12	-1.235e+05	-1.13	-1.236e+05	-1.15	-1.239e+05	-1.19	-1.245e+05
	-1.27	-1.256e+05	-1.35	-1.267e+05	-1.35	-1.267e+05	-1.36	-1.268e+05	-1.37	-1.269e+05	-1.39	-1.272e+05
	-1.43	-1.278e+05	-1.51	-1.289e+05	-1.52	-1.289e+05	-1.52	-1.290e+05	-1.53	-1.290e+05	-1.54	-1.292e+05
	-1.56	-1.295e+05	-1.61	-1.300e+05								
Cmb	Sp. Dc	Tag. Fb										
	-1.61	-1.300e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
42	0.0	0.0	2.83e-04	69.8	8.49e-04	209.3	1.98e-03	488.4	4.25e-03	1046.5	8.78e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.09	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.14	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.18	4.346e+04	0.18	4.458e+04	0.19	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.22	5.351e+04	0.22	5.463e+04	0.23	5.574e+04
	0.23	5.686e+04	0.24	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.27	6.579e+04	0.27	6.691e+04	0.28	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.472e+04	0.31	7.584e+04
	0.31	7.695e+04	0.32	7.807e+04	0.32	7.919e+04	0.32	8.030e+04	0.32	8.142e+04	0.32	8.254e+04
	0.32	7.946e+04	0.32	7.974e+04	0.33	8.030e+04	0.33	8.142e+04	0.34	8.253e+04	0.34	8.365e+04
	0.34	8.260e+04	0.34	8.267e+04	0.34	8.281e+04	0.34	8.309e+04	0.34	8.365e+04	0.35	8.477e+04
	0.35	8.480e+04	0.35	8.484e+04	0.35	8.491e+04	0.35	8.505e+04	0.35	8.532e+04	0.35	8.536e+04
	0.35	8.539e+04	0.35	8.546e+04	0.35	8.560e+04	0.35	8.588e+04	0.36	8.644e+04	0.36	8.756e+04
	0.37	8.867e+04	0.38	8.979e+04	0.39	9.091e+04	0.39	9.202e+04	0.39	9.206e+04	0.39	9.209e+04
	0.39	9.216e+04	0.39	9.230e+04	0.40	9.258e+04	0.40	9.314e+04	0.41	9.425e+04	0.41	9.537e+04
	0.41	9.541e+04	0.41	9.544e+04	0.41	9.548e+04	0.42	9.555e+04	0.42	9.568e+04	0.42	9.596e+04
	0.42	9.652e+04	0.42	9.656e+04	0.42	9.659e+04	0.43	9.666e+04	0.43	9.680e+04	0.43	9.708e+04
	0.43	9.712e+04	0.43	9.715e+04	0.43	9.722e+04	0.43	9.736e+04	0.44	9.764e+04	0.44	9.767e+04
	0.44	9.771e+04	0.44	9.778e+04	0.44	9.792e+04	0.44	9.820e+04	0.45	9.875e+04	0.46	9.987e+04
	0.48	1.010e+05	0.49	1.021e+05	0.51	1.032e+05	0.52	1.043e+05	0.52	1.044e+05	0.52	1.044e+05
	0.52	1.045e+05	0.52	1.046e+05	0.53	1.049e+05	0.53	1.055e+05	0.55	1.066e+05	0.55	1.066e+05
	0.55	1.066e+05	0.55	1.067e+05	0.55	1.067e+05	0.55	1.069e+05	0.56	1.072e+05	0.57	1.077e+05
	0.57	1.078e+05	0.57	1.078e+05	0.57	1.079e+05	0.57	1.080e+05	0.57	1.080e+05	0.57	1.081e+05
	0.57	1.082e+05	0.58	1.085e+05	0.59	1.091e+05	0.61	1.102e+05	0.63	1.113e+05	0.64	1.124e+05
	0.66	1.135e+05	0.68	1.147e+05	0.70	1.158e+05	0.70	1.158e+05	0.70	1.159e+05	0.71	1.160e+05
	0.71	1.161e+05	0.71	1.161e+05	0.71	1.162e+05	0.71	1.163e+05	0.72	1.166e+05	0.73	1.171e+05
	0.75	1.183e+05	0.77	1.194e+05	0.78	1.194e+05	0.78	1.194e+05	0.78	1.195e+05	0.78	1.195e+05
	0.78	1.197e+05	0.79	1.200e+05	0.80	1.205e+05	0.83	1.216e+05	0.83	1.217e+05	0.83	1.217e+05
	0.84	1.218e+05	0.84	1.219e+05	0.85	1.222e+05	0.85	1.222e+05	0.85	1.223e+05	0.86	1.223e+05
	0.86	1.225e+05	0.87	1.228e+05	0.89	1.233e+05	0.89	1.233e+05	0.89	1.234e+05	0.90	1.235e+05
	0.90	1.236e+05	0.91	1.239e+05	0.94	1.244e+05	0.99	1.255e+05	0.99	1.256e+05	0.99	1.256e+05
	0.99	1.256e+05	0.99	1.257e+05	1.00	1.258e+05	1.00	1.259e+05	1.02	1.262e+05	1.06	1.267e+05
	1.06	1.268e+05	1.06	1.268e+05	1.07	1.269e+05	1.08	1.270e+05	1.10	1.273e+05	1.15	1.278e+05
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.15	1.278e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
43	0.0	0.0	-2.82e-04	-69.8	-8.47e-04	-209.3	-1.98e-03	-488.4	-4.23e-03	-1046.5	-8.75e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.14	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.18	-4.346e+04	-0.18	-4.458e+04	-0.18	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.23	-5.574e+04
	-0.23	-5.686e+04	-0.23	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.27	-6.579e+04	-0.27	-6.691e+04	-0.28	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.479e+04	-0.30	-7.486e+04	-0.30	-7.500e+04	-0.30	-7.528e+04	-0.31	-7.584e+04	-0.31	-7.695e+04
	-0.32	-7.807e+04	-0.32	-7.919e+04	-0.32	-7.922e+04	-0.32	-7.925e+04	-0.32	-7.932e+04	-0.32	-7.946e+04
	-0.32	-7.974e+04	-0.33	-8.030e+04	-0.33	-8.142e+04	-0.34	-8.253e+04	-0.34	-8.365e+04	-0.35	-8.477e+04
	-0.35	-8.480e+04	-0.35	-8.484e+04	-0.35	-8.491e+04	-0.35	-8.505e+04	-0.35	-8.532e+04	-0.35	-8.588e+04
	-0.36	-8.700e+04	-0.36	-8.703e+04	-0.36	-8.707e+04	-0.36	-8.714e+04	-0.36	-8.728e+04	-0.36	-8.756e+04
	-0.37	-8.812e+04	-0.37	-8.923e+04	-0.38	-9.035e+04	-0.38	-9.038e+04	-0.38	-9.042e+04	-0.38	-9.049e+04
	-0.38	-9.063e+04	-0.38	-9.091e+04	-0.38	-9.146e+04	-0.38	-9.150e+04	-0.38	-9.153e+04	-0.39	-9.160e+04
	-0.39	-9.174e+04	-0.39	-9.202e+04	-0.39	-9.258e+04	-0.39	-9.262e+04	-0.39	-9.265e+04	-0.39	-9.272e+04
	-0.39	-9.286e+04	-0.40	-9.314e+04	-0.40	-9.370e+04	-0.41	-9.481e+04	-0.41	-9.485e+04	-0.41	-9.488e+04
	-0.41	-9.495e+04	-0.41	-9.499e+04	-0.41	-9.502e+04	-0.41	-9.509e+04	-0.41	-9.523e+04	-0.42	-9.551e+04
	-0.42	-9.607e+04	-0.42	-9.610e+04	-0.42	-9.614e+04	-0.42	-9.621e+04	-0.42	-9.635e+04	-0.43	-9.663e+04
	-0.43	-9.718e+04	-0.43	-9.722e+04	-0.43	-9.729e+04	-0.44	-9.743e+04	-0.44	-9.771e+04	-0.45	-9.827e+04
	-0.46	-9.938e+04	-0.47	-1.005e+05	-0.47	-1.005e+05	-0.47	-1.006e+05	-0.47	-1.006e+05	-0.47	-1.008e+05
	-0.48	-1.011e+05	-0.48	-1.016e+05	-0.50	-1.027e+05	-0.51	-1.038e+05	-0.53	-1.050e+05	-0.53	-1.050e+05
	-0.53	-1.050e+05	-0.53	-1.051e+05	-0.53	-1.052e+05	-0.53	-1.055e+05	-0.54	-1.061e+05	-0.54	-1.061e+05
	-0.54	-1.061e+05	-0.54	-1.062e+05	-0.55	-1.064e+05	-0.55	-1.066e+05	-0.56	-1.072e+05	-0.58	-1.083e+05
	-0.58	-1.083e+05	-0.58	-1.084e+05	-0.58	-1.085e+05	-0.58	-1.086e+05	-0.58	-1.089e+05	-0.59	-1.089e+05
	-0.59	-1.090e+05	-0.59	-1.091e+05	-0.59	-1.094e+05	-0.60	-1.100e+05	-0.62	-1.111e+05	-0.62	-1.111e+05
	-0.62	-1.111e+05	-0.63	-1.112e+05	-0.63	-1.113e+05	-0.63	-1.116e+05	-0.65	-1.122e+05	-0.67	-1.133e+05
	-0.67	-1.133e+05	-0.67	-1.134e+05	-0.67	-1.134e+05	-0.68	-1.136e+05	-0.68	-1.139e+05	-0.69	-1.144e+05
	-0.72	-1.155e+05	-0.73	-1.156e+05	-0.73	-1.156e+05	-0.73	-1.157e+05	-0.73	-1.157e+05	-0.73	-1.157e+05
	-0.73	-1.158e+05	-0.74	-1.160e+05	-0.75	-1.162e+05	-0.77	-1.168e+05	-0.77	-1.168e+05	-0.78	-1.169e+05
	-0.78	-1.170e+05	-0.79	-1.173e+05	-0.80	-1.173e+05	-0.80	-1.174e+05	-0.80	-1.175e+05	-0.81	-1.176e+05
	-0.82	-1.179e+05	-0.85	-1.184e+05	-0.85	-1.185e+05	-0.85	-1.185e+05	-0.85	-1.186e+05	-0.86	-1.187e+05
	-0.87	-1.190e+05	-0.90	-1.195e+05	-0.96	-1.207e+05	-0.96	-1.207e+05	-0.96	-1.208e+05	-0.97	-1.209e+05
	-0.99	-1.212e+05	-0.99	-1.212e+05	-0.99	-1.213e+05	-1.00	-1.213e+05	-1.00	-1.215e+05	-1.01	-1.215e+05
	-1.01	-1.215e+05	-1.01	-1.216e+05	-1.02	-1.217e+05	-1.04	-1.220e+05	-1.04	-1.221e+05	-1.04	-1.221e+05
	-1.05	-1.222e+05	-1.06	-1.223e+05	-1.07	-1.226e+05	-1.11	-1.231e+05	-1.19	-1.243e+05	-1.26	-1.254e+05
	-1.34	-1.265e+05	-1.41	-1.276e+05	-1.42	-1.276e+05	-1.42	-1.277e+05	-1.43	-1.277e+05	-1.44	-1.279e+05
	-1.46	-1.282e+05	-1.50	-1.287e+05	-1.59	-1.298e+05	-1.67	-1.310e+05	-1.77	-1.321e+05		
Cmb	Sp. Dc	Tag. Fb										
	-1.77	-1.321e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
44	0.0	0.0	2.82e-04	69.8	8.47e-04	209.3	1.98e-03	488.4	4.23e-03	1046.5	8.75e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.09	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.14	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.18	4.346e+04	0.18	4.458e+04	0.18	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.22	5.351e+04	0.22	5.463e+04	0.23	5.574e+04
	0.23	5.686e+04	0.23	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.27	6.579e+04	0.27	6.691e+04	0.28	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.364e+04	0.30	7.367e+04
	0.30	7.374e+04	0.30	7.388e+04	0.30	7.416e+04	0.30	7.472e+04	0.31	7.584e+04	0.31	7.695e+04
	0.32	7.807e+04	0.32	7.919e+04	0.33	8.030e+04	0.33	8.142e+04	0.34	8.253e+04	0.34	8.365e+04
	0.34	8.477e+04	0.35	8.480e+04	0.35	8.484e+04	0.35	8.491e+04	0.35	8.505e+04	0.35	8.532e+04
	0.35	8.536e+04	0.35	8.539e+04	0.35	8.546e+04	0.35	8.560e+04	0.35	8.588e+04	0.35	8.644e+04
	0.36	8.756e+04	0.36	8.759e+04	0.36	8.766e+04	0.36	8.780e+04	0.36	8.808e+04	0.37	8.864e+04
	0.37	8.975e+04	0.38	9.087e+04	0.38	9.199e+04	0.38	9.202e+04	0.39	9.209e+04	0.39	9.223e+04
	0.39	9.251e+04	0.39	9.307e+04	0.39	9.310e+04	0.39	9.314e+04	0.39	9.321e+04	0.39	9.335e+04
	0.39	9.363e+04	0.40	9.419e+04	0.41	9.530e+04	0.41	9.642e+04	0.41	9.645e+04	0.41	9.649e+04
	0.41	9.656e+04	0.42	9.670e+04	0.42	9.698e+04	0.42	9.753e+04	0.43	9.865e+04	0.43	9.868e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.43	9.872e+04	0.43	9.879e+04	0.43	9.893e+04	0.43	9.921e+04	0.44	9.977e+04	0.45	1.009e+05
	0.45	1.009e+05	0.45	1.010e+05	0.45	1.010e+05	0.45	1.012e+05	0.45	1.014e+05	0.45	1.015e+05
	0.45	1.015e+05	0.45	1.016e+05	0.46	1.017e+05	0.46	1.020e+05	0.46	1.026e+05	0.48	1.037e+05
	0.49	1.048e+05	0.50	1.059e+05	0.50	1.059e+05	0.50	1.060e+05	0.50	1.060e+05	0.50	1.062e+05
	0.50	1.065e+05	0.51	1.065e+05	0.51	1.065e+05	0.51	1.066e+05	0.51	1.067e+05	0.51	1.070e+05
	0.51	1.071e+05	0.51	1.071e+05	0.51	1.072e+05	0.52	1.073e+05	0.52	1.076e+05	0.53	1.081e+05
	0.55	1.093e+05	0.55	1.093e+05	0.55	1.094e+05	0.55	1.095e+05	0.55	1.098e+05	0.56	1.103e+05
	0.58	1.115e+05	0.58	1.115e+05	0.58	1.116e+05	0.58	1.117e+05	0.59	1.120e+05	0.60	1.125e+05
	0.62	1.136e+05	0.62	1.137e+05	0.62	1.137e+05	0.62	1.138e+05	0.62	1.139e+05	0.62	1.140e+05
	0.62	1.140e+05	0.63	1.142e+05	0.63	1.145e+05	0.64	1.150e+05	0.67	1.161e+05	0.67	1.162e+05
	0.67	1.162e+05	0.67	1.163e+05	0.67	1.164e+05	0.68	1.167e+05	0.70	1.172e+05	0.70	1.173e+05
	0.70	1.173e+05	0.70	1.174e+05	0.70	1.175e+05	0.71	1.178e+05	0.73	1.184e+05	0.73	1.184e+05
	0.73	1.184e+05	0.73	1.185e+05	0.74	1.186e+05	0.75	1.189e+05	0.76	1.195e+05	0.80	1.206e+05
	0.80	1.206e+05	0.80	1.207e+05	0.80	1.207e+05	0.81	1.209e+05	0.82	1.211e+05	0.82	1.212e+05
	0.82	1.212e+05	0.82	1.213e+05	0.83	1.214e+05	0.84	1.217e+05	0.86	1.223e+05	0.86	1.223e+05
	0.86	1.223e+05	0.86	1.224e+05	0.87	1.225e+05	0.88	1.228e+05	0.91	1.234e+05	0.95	1.245e+05
	1.01	1.256e+05	1.01	1.256e+05	1.01	1.257e+05	1.02	1.258e+05	1.02	1.259e+05	1.04	1.262e+05
	1.04	1.262e+05	1.04	1.262e+05	1.05	1.263e+05	1.06	1.265e+05	1.06	1.265e+05	1.06	1.265e+05
	1.06	1.266e+05	1.07	1.266e+05	1.08	1.268e+05						
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.08	1.268e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
45	0.0	0.0	-3.38e-04	-69.8	-1.01e-03	-209.3	-2.37e-03	-488.4	-5.07e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.06	-1.333e+04	-0.07	-1.444e+04	-0.08	-1.556e+04
	-0.08	-1.667e+04	-0.09	-1.779e+04	-0.09	-1.891e+04	-0.10	-2.002e+04	-0.10	-2.114e+04	-0.11	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.12	-2.560e+04	-0.13	-2.672e+04	-0.13	-2.784e+04	-0.14	-2.895e+04
	-0.15	-3.007e+04	-0.15	-3.119e+04	-0.16	-3.230e+04	-0.16	-3.342e+04	-0.17	-3.453e+04	-0.17	-3.565e+04
	-0.18	-3.677e+04	-0.18	-3.788e+04	-0.19	-3.900e+04	-0.19	-4.012e+04	-0.20	-4.123e+04	-0.21	-4.235e+04
	-0.21	-4.346e+04	-0.22	-4.458e+04	-0.22	-4.570e+04	-0.23	-4.681e+04	-0.23	-4.793e+04	-0.24	-4.905e+04
	-0.24	-5.016e+04	-0.25	-5.128e+04	-0.25	-5.239e+04	-0.26	-5.351e+04	-0.27	-5.463e+04	-0.27	-5.574e+04
	-0.28	-5.686e+04	-0.28	-5.798e+04	-0.29	-5.909e+04	-0.29	-6.021e+04	-0.30	-6.132e+04	-0.30	-6.244e+04
	-0.31	-6.356e+04	-0.31	-6.467e+04	-0.32	-6.579e+04	-0.32	-6.691e+04	-0.33	-6.802e+04	-0.34	-6.914e+04
	-0.34	-7.026e+04	-0.34	-7.029e+04	-0.34	-7.032e+04	-0.34	-7.039e+04	-0.34	-7.053e+04	-0.34	-7.081e+04
	-0.35	-7.137e+04	-0.35	-7.249e+04	-0.36	-7.360e+04	-0.37	-7.472e+04	-0.37	-7.584e+04	-0.37	-7.587e+04
	-0.37	-7.591e+04	-0.37	-7.598e+04	-0.38	-7.612e+04	-0.38	-7.639e+04	-0.38	-7.695e+04	-0.39	-7.807e+04
	-0.39	-7.810e+04	-0.39	-7.814e+04	-0.39	-7.821e+04	-0.39	-7.835e+04	-0.39	-7.863e+04	-0.40	-7.919e+04
	-0.41	-8.030e+04	-0.41	-8.034e+04	-0.41	-8.037e+04	-0.41	-8.044e+04	-0.41	-8.058e+04	-0.41	-8.086e+04
	-0.41	-8.142e+04	-0.42	-8.253e+04	-0.43	-8.257e+04	-0.43	-8.260e+04	-0.43	-8.267e+04	-0.43	-8.281e+04
	-0.43	-8.309e+04	-0.43	-8.313e+04	-0.43	-8.316e+04	-0.43	-8.323e+04	-0.43	-8.337e+04	-0.44	-8.365e+04
	-0.44	-8.421e+04	-0.45	-8.532e+04	-0.47	-8.644e+04	-0.47	-8.648e+04	-0.47	-8.651e+04	-0.47	-8.658e+04
	-0.47	-8.672e+04	-0.47	-8.700e+04	-0.48	-8.756e+04	-0.49	-8.867e+04	-0.49	-8.871e+04	-0.49	-8.874e+04
	-0.49	-8.881e+04	-0.50	-8.895e+04	-0.50	-8.923e+04	-0.51	-8.979e+04	-0.52	-9.091e+04	-0.53	-9.202e+04
	-0.54	-9.206e+04	-0.54	-9.209e+04	-0.54	-9.216e+04	-0.54	-9.230e+04	-0.54	-9.258e+04	-0.54	-9.262e+04
	-0.54	-9.265e+04	-0.55	-9.272e+04	-0.55	-9.286e+04	-0.55	-9.289e+04	-0.55	-9.293e+04	-0.55	-9.300e+04
	-0.56	-9.314e+04	-0.56	-9.342e+04	-0.57	-9.398e+04	-0.60	-9.509e+04	-0.62	-9.621e+04	-0.65	-9.732e+04
	-0.65	-9.736e+04	-0.65	-9.739e+04	-0.65	-9.746e+04	-0.66	-9.760e+04	-0.66	-9.788e+04	-0.68	-9.844e+04
	-0.70	-9.956e+04	-0.73	-1.007e+05	-0.73	-1.007e+05	-0.73	-1.008e+05	-0.74	-1.009e+05	-0.74	-1.012e+05
	-0.76	-1.018e+05	-0.76	-1.018e+05	-0.76	-1.019e+05	-0.76	-1.020e+05	-0.77	-1.023e+05	-0.79	-1.028e+05
	-0.79	-1.029e+05	-0.79	-1.029e+05	-0.79	-1.030e+05	-0.80	-1.031e+05	-0.80	-1.032e+05	-0.80	-1.032e+05
	-0.80	-1.033e+05	-0.80	-1.034e+05	-0.81	-1.037e+05	-0.83	-1.042e+05	-0.87	-1.053e+05	-0.87	-1.054e+05
	-0.87	-1.055e+05	-0.88	-1.056e+05	-0.89	-1.059e+05	-0.91	-1.064e+05	-0.96	-1.075e+05	-0.96	-1.076e+05
	-0.96	-1.076e+05	-0.97	-1.077e+05	-0.97	-1.078e+05	-0.99	-1.081e+05	-1.02	-1.087e+05	-1.09	-1.098e+05
	-1.09	-1.098e+05	-1.10	-1.098e+05	-1.10	-1.099e+05	-1.12	-1.101e+05				
Cmb	Sp. Dc	Tag. Fb										
	-1.12	-1.101e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
46	0.0	0.0	3.38e-04	69.8	1.01e-03	209.3	2.37e-03	488.4	5.07e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.06	1.333e+04	0.07	1.444e+04	0.08	1.556e+04
	0.08	1.667e+04	0.09	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.12	2.560e+04	0.13	2.672e+04	0.14	2.784e+04	0.14	2.895e+04

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.15	3.007e+04	0.15	3.119e+04	0.16	3.230e+04	0.16	3.342e+04	0.17	3.453e+04	0.17	3.565e+04
	0.18	3.677e+04	0.18	3.788e+04	0.19	3.900e+04	0.19	4.012e+04	0.20	4.123e+04	0.21	4.235e+04
	0.21	4.346e+04	0.22	4.458e+04	0.22	4.570e+04	0.23	4.681e+04	0.23	4.793e+04	0.24	4.905e+04
	0.24	5.016e+04	0.25	5.128e+04	0.25	5.239e+04	0.26	5.351e+04	0.27	5.463e+04	0.27	5.574e+04
	0.28	5.686e+04	0.28	5.798e+04	0.29	5.909e+04	0.29	6.021e+04	0.30	6.132e+04	0.30	6.244e+04
	0.31	6.356e+04	0.31	6.467e+04	0.32	6.579e+04	0.33	6.691e+04	0.33	6.802e+04	0.34	6.914e+04
	0.34	7.026e+04	0.35	7.137e+04	0.35	7.249e+04	0.36	7.360e+04	0.36	7.472e+04	0.36	7.584e+04
	0.36	7.374e+04	0.36	7.388e+04	0.36	7.416e+04	0.37	7.472e+04	0.37	7.584e+04	0.38	7.695e+04
	0.39	7.807e+04	0.40	7.919e+04	0.40	7.922e+04	0.40	7.925e+04	0.40	7.932e+04	0.40	7.946e+04
	0.40	7.950e+04	0.40	7.953e+04	0.40	7.960e+04	0.40	7.974e+04	0.40	8.002e+04	0.41	8.058e+04
	0.42	8.170e+04	0.43	8.281e+04	0.44	8.393e+04	0.45	8.505e+04	0.46	8.616e+04	0.46	8.620e+04
	0.46	8.623e+04	0.46	8.630e+04	0.46	8.644e+04	0.46	8.672e+04	0.47	8.728e+04	0.47	8.731e+04
	0.47	8.735e+04	0.47	8.742e+04	0.47	8.756e+04	0.48	8.784e+04	0.48	8.839e+04	0.50	8.951e+04
	0.50	8.955e+04	0.50	8.958e+04	0.50	8.965e+04	0.50	8.979e+04	0.51	9.007e+04	0.52	9.063e+04
	0.54	9.174e+04	0.57	9.286e+04	0.57	9.289e+04	0.57	9.293e+04	0.57	9.300e+04	0.57	9.314e+04
	0.58	9.342e+04	0.59	9.398e+04	0.62	9.509e+04	0.62	9.513e+04	0.62	9.520e+04	0.63	9.534e+04
	0.63	9.562e+04	0.65	9.617e+04	0.67	9.729e+04	0.70	9.841e+04	0.70	9.844e+04	0.70	9.851e+04
	0.71	9.865e+04	0.72	9.893e+04	0.73	9.949e+04	0.76	1.006e+05	0.76	1.006e+05	0.76	1.007e+05
	0.77	1.008e+05	0.77	1.009e+05	0.77	1.010e+05	0.77	1.011e+05	0.77	1.011e+05	0.77	1.012e+05
	0.78	1.012e+05	0.78	1.013e+05	0.78	1.014e+05	0.79	1.017e+05	0.81	1.022e+05	0.85	1.034e+05
	0.85	1.034e+05	0.85	1.034e+05	0.85	1.035e+05	0.85	1.036e+05	0.86	1.039e+05	0.88	1.045e+05
	0.92	1.056e+05	0.93	1.056e+05	0.93	1.057e+05	0.93	1.057e+05	0.94	1.059e+05	0.95	1.061e+05
	0.97	1.067e+05	0.97	1.067e+05	0.97	1.068e+05	0.98	1.068e+05	0.98	1.070e+05	1.00	1.073e+05
	1.02	1.078e+05	1.03	1.079e+05	1.03	1.079e+05	1.03	1.080e+05	1.04	1.081e+05	1.05	1.084e+05
	1.08	1.089e+05	1.09	1.090e+05	1.09	1.090e+05	1.09	1.090e+05	1.10	1.091e+05	1.10	1.091e+05
	1.10	1.092e+05	1.11	1.093e+05	1.12	1.094e+05	1.15	1.097e+05	1.19	1.102e+05	1.29	1.113e+05
	1.30	1.114e+05										
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.30	1.114e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
47	0.0	0.0	-3.42e-04	-69.8	-1.03e-03	-209.3	-2.39e-03	-488.4	-5.13e-03	-1046.5	-0.01	-2162.8
	-0.02	-3279.0	-0.02	-4395.3	-0.03	-5511.6	-0.03	-6627.8	-0.04	-7744.1	-0.04	-8860.4
	-0.05	-9976.6	-0.05	-1.109e+04	-0.06	-1.221e+04	-0.07	-1.333e+04	-0.07	-1.444e+04	-0.08	-1.556e+04
	-0.08	-1.667e+04	-0.09	-1.779e+04	-0.09	-1.891e+04	-0.10	-2.002e+04	-0.10	-2.114e+04	-0.11	-2.226e+04
	-0.11	-2.337e+04	-0.12	-2.449e+04	-0.13	-2.560e+04	-0.13	-2.672e+04	-0.14	-2.784e+04	-0.14	-2.895e+04
	-0.15	-3.007e+04	-0.15	-3.119e+04	-0.16	-3.230e+04	-0.16	-3.342e+04	-0.17	-3.453e+04	-0.17	-3.565e+04
	-0.18	-3.677e+04	-0.19	-3.788e+04	-0.19	-3.900e+04	-0.20	-4.012e+04	-0.20	-4.123e+04	-0.21	-4.235e+04
	-0.21	-4.346e+04	-0.22	-4.458e+04	-0.22	-4.570e+04	-0.23	-4.681e+04	-0.24	-4.793e+04	-0.24	-4.905e+04
	-0.25	-5.016e+04	-0.25	-5.128e+04	-0.26	-5.239e+04	-0.26	-5.351e+04	-0.27	-5.463e+04	-0.27	-5.574e+04
	-0.28	-5.686e+04	-0.28	-5.798e+04	-0.29	-5.909e+04	-0.30	-6.021e+04	-0.30	-6.132e+04	-0.31	-6.244e+04
	-0.31	-6.356e+04	-0.32	-6.467e+04	-0.32	-6.579e+04	-0.33	-6.691e+04	-0.33	-6.802e+04	-0.34	-6.914e+04
	-0.34	-6.917e+04	-0.34	-6.921e+04	-0.34	-6.928e+04	-0.34	-6.942e+04	-0.34	-6.970e+04	-0.35	-7.026e+04
	-0.35	-7.137e+04	-0.36	-7.249e+04	-0.37	-7.360e+04	-0.37	-7.472e+04	-0.37	-7.475e+04	-0.37	-7.479e+04
	-0.37	-7.486e+04	-0.37	-7.500e+04	-0.38	-7.528e+04	-0.38	-7.584e+04	-0.39	-7.695e+04	-0.40	-7.807e+04
	-0.40	-7.810e+04	-0.40	-7.814e+04	-0.40	-7.821e+04	-0.40	-7.835e+04	-0.40	-7.863e+04	-0.40	-7.919e+04
	-0.40	-7.922e+04	-0.40	-7.925e+04	-0.41	-7.932e+04	-0.41	-7.946e+04	-0.41	-7.974e+04	-0.41	-8.030e+04
	-0.42	-8.142e+04	-0.42	-8.145e+04	-0.42	-8.149e+04	-0.42	-8.156e+04	-0.43	-8.170e+04	-0.43	-8.173e+04
	-0.43	-8.177e+04	-0.43	-8.184e+04	-0.43	-8.198e+04	-0.43	-8.225e+04	-0.44	-8.281e+04	-0.45	-8.393e+04
	-0.46	-8.505e+04	-0.47	-8.616e+04	-0.47	-8.620e+04	-0.47	-8.623e+04	-0.48	-8.630e+04	-0.48	-8.644e+04
	-0.48	-8.672e+04	-0.48	-8.675e+04	-0.48	-8.679e+04	-0.48	-8.686e+04	-0.48	-8.700e+04	-0.49	-8.728e+04
	-0.49	-8.784e+04	-0.51	-8.895e+04	-0.52	-9.007e+04	-0.54	-9.119e+04	-0.54	-9.122e+04	-0.54	-9.129e+04
	-0.54	-9.143e+04	-0.54	-9.146e+04	-0.54	-9.150e+04	-0.54	-9.157e+04	-0.54	-9.160e+04	-0.55	-9.164e+04
	-0.55	-9.167e+04	-0.55	-9.174e+04	-0.55	-9.188e+04	-0.56	-9.216e+04	-0.56	-9.220e+04	-0.56	-9.227e+04
	-0.56	-9.241e+04	-0.57	-9.269e+04	-0.58	-9.324e+04	-0.61	-9.436e+04	-0.63	-9.548e+04	-0.66	-9.659e+04
	-0.66	-9.663e+04	-0.66	-9.666e+04	-0.66	-9.673e+04	-0.66	-9.687e+04	-0.67	-9.715e+04	-0.68	-9.771e+04
	-0.71	-9.882e+04	-0.74	-9.994e+04	-0.74	-9.998e+04	-0.74	-1.000e+05	-0.74	-1.002e+05	-0.75	-1.005e+05
	-0.77	-1.010e+05	-0.77	-1.011e+05	-0.77	-1.011e+05	-0.77	-1.012e+05	-0.77	-1.013e+05	-0.78	-1.016e+05
	-0.78	-1.016e+05	-0.78	-1.017e+05	-0.78	-1.017e+05	-0.79	-1.019e+05	-0.80	-1.021e+05	-0.81	-1.027e+05
	-0.81	-1.027e+05	-0.82	-1.028e+05	-0.82	-1.028e+05	-0.82	-1.030e+05	-0.83	-1.033e+05	-0.85	-1.038e+05
	-0.85	-1.038e+05	-0.85	-1.039e+05	-0.86	-1.041e+05	-0.87	-1.043e+05	-0.89	-1.049e+05	-0.93	-1.060e+05
	-0.93	-1.060e+05	-0.94	-1.061e+05	-0.94	-1.061e+05	-0.95	-1.063e+05	-0.95	-1.063e+05	-0.95	-1.064e+05
	-0.95	-1.064e+05	-0.96	-1.066e+05	-0.97	-1.068e+05	-1.00	-1.074e+05	-1.06	-1.085e+05	-1.14	-1.096e+05
	-1.15	-1.097e+05	-1.15	-1.097e+05	-1.15	-1.098e+05	-1.17	-1.099e+05	-1.19	-1.102e+05	-1.24	-1.108e+05
	-1.25	-1.108e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.25	-1.108e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
48	0.0	0.0	3.42e-04	69.8	1.03e-03	209.3	2.39e-03	488.4	5.13e-03	1046.5	0.01	2162.8
	0.02	3279.0	0.02	4395.3	0.03	5511.6	0.03	6627.8	0.04	7744.1	0.04	8860.4
	0.05	9976.6	0.05	1.109e+04	0.06	1.221e+04	0.07	1.333e+04	0.07	1.444e+04	0.08	1.556e+04
	0.08	1.667e+04	0.09	1.779e+04	0.09	1.891e+04	0.10	2.002e+04	0.10	2.114e+04	0.11	2.226e+04
	0.11	2.337e+04	0.12	2.449e+04	0.13	2.560e+04	0.13	2.672e+04	0.14	2.784e+04	0.14	2.895e+04
	0.15	3.007e+04	0.15	3.119e+04	0.16	3.230e+04	0.16	3.342e+04	0.17	3.453e+04	0.18	3.565e+04
	0.18	3.677e+04	0.19	3.788e+04	0.19	3.900e+04	0.20	4.012e+04	0.20	4.123e+04	0.21	4.235e+04
	0.21	4.346e+04	0.22	4.458e+04	0.22	4.570e+04	0.23	4.681e+04	0.24	4.793e+04	0.24	4.905e+04
	0.25	5.016e+04	0.25	5.128e+04	0.26	5.239e+04	0.26	5.351e+04	0.27	5.463e+04	0.27	5.574e+04
	0.28	5.686e+04	0.28	5.798e+04	0.29	5.909e+04	0.30	6.021e+04	0.30	6.132e+04	0.31	6.244e+04
	0.31	6.356e+04	0.32	6.467e+04	0.32	6.579e+04	0.33	6.691e+04	0.33	6.802e+04	0.34	6.914e+04
	0.35	7.026e+04	0.35	7.137e+04	0.36	7.249e+04	0.36	7.252e+04	0.36	7.256e+04	0.36	7.263e+04
	0.36	7.277e+04	0.36	7.305e+04	0.36	7.360e+04	0.37	7.472e+04	0.38	7.584e+04	0.39	7.695e+04
	0.39	7.807e+04	0.40	7.919e+04	0.40	7.922e+04	0.40	7.925e+04	0.41	7.932e+04	0.41	7.946e+04
	0.41	7.974e+04	0.41	8.030e+04	0.42	8.142e+04	0.43	8.253e+04	0.44	8.365e+04	0.45	8.477e+04
	0.45	8.480e+04	0.45	8.484e+04	0.45	8.491e+04	0.46	8.505e+04	0.46	8.532e+04	0.46	8.536e+04
	0.46	8.543e+04	0.46	8.557e+04	0.46	8.585e+04	0.46	8.588e+04	0.47	8.592e+04	0.47	8.599e+04
	0.47	8.613e+04	0.47	8.641e+04	0.48	8.696e+04	0.49	8.808e+04	0.49	8.812e+04	0.49	8.815e+04
	0.49	8.822e+04	0.50	8.836e+04	0.50	8.864e+04	0.51	8.920e+04	0.53	9.031e+04	0.56	9.143e+04
	0.56	9.146e+04	0.56	9.150e+04	0.56	9.157e+04	0.56	9.171e+04	0.56	9.174e+04	0.57	9.178e+04
	0.57	9.185e+04	0.57	9.199e+04	0.58	9.227e+04	0.59	9.282e+04	0.62	9.394e+04	0.62	9.398e+04
	0.62	9.405e+04	0.62	9.419e+04	0.63	9.446e+04	0.64	9.502e+04	0.67	9.614e+04	0.70	9.725e+04
	0.70	9.729e+04	0.70	9.732e+04	0.70	9.739e+04	0.71	9.753e+04	0.71	9.781e+04	0.73	9.837e+04
	0.76	9.949e+04	0.79	1.006e+05	0.79	1.006e+05	0.79	1.007e+05	0.79	1.007e+05	0.80	1.009e+05
	0.81	1.012e+05	0.82	1.017e+05	0.86	1.028e+05	0.86	1.029e+05	0.86	1.029e+05	0.87	1.030e+05
	0.87	1.031e+05	0.88	1.034e+05	0.90	1.040e+05	0.94	1.051e+05	0.95	1.051e+05	0.95	1.051e+05
	0.95	1.052e+05	0.96	1.053e+05	0.97	1.056e+05	0.99	1.062e+05	0.99	1.062e+05	1.00	1.063e+05
	1.00	1.064e+05	1.02	1.067e+05	1.05	1.073e+05	1.05	1.073e+05	1.05	1.073e+05	1.05	1.074e+05
	1.06	1.075e+05	1.07	1.078e+05	1.11	1.084e+05	1.11	1.084e+05	1.11	1.085e+05	1.11	1.085e+05
	1.12	1.085e+05	1.12	1.086e+05	1.13	1.087e+05	1.15	1.090e+05	1.19	1.096e+05	1.28	1.107e+05
	1.28	1.107e+05	1.28	1.108e+05	1.29	1.108e+05	1.29	1.109e+05				
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.29	1.109e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
49	0.0	0.0	-2.81e-04	-69.8	-8.43e-04	-209.3	-1.97e-03	-488.4	-4.21e-03	-1046.5	-8.71e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.09	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.13	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.17	-4.346e+04	-0.18	-4.458e+04	-0.18	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.22	-5.351e+04	-0.22	-5.463e+04	-0.22	-5.574e+04
	-0.23	-5.686e+04	-0.23	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.26	-6.579e+04	-0.27	-6.691e+04	-0.27	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.475e+04
	-0.30	-7.482e+04	-0.30	-7.496e+04	-0.30	-7.524e+04	-0.31	-7.580e+04	-0.31	-7.584e+04	-0.31	-7.587e+04
	-0.31	-7.594e+04	-0.31	-7.608e+04	-0.31	-7.636e+04	-0.31	-7.692e+04	-0.32	-7.803e+04	-0.32	-7.915e+04
	-0.33	-8.027e+04	-0.33	-8.138e+04	-0.33	-8.142e+04	-0.33	-8.149e+04	-0.33	-8.163e+04	-0.34	-8.191e+04
	-0.34	-8.246e+04	-0.34	-8.358e+04	-0.35	-8.470e+04	-0.36	-8.581e+04	-0.36	-8.585e+04	-0.36	-8.588e+04
	-0.36	-8.595e+04	-0.36	-8.609e+04	-0.36	-8.637e+04	-0.36	-8.693e+04	-0.37	-8.805e+04	-0.38	-8.916e+04
	-0.39	-9.028e+04	-0.39	-9.031e+04	-0.39	-9.035e+04	-0.39	-9.042e+04	-0.39	-9.056e+04	-0.39	-9.084e+04
	-0.39	-9.087e+04	-0.39	-9.091e+04	-0.39	-9.094e+04	-0.39	-9.101e+04	-0.40	-9.115e+04	-0.40	-9.143e+04
	-0.40	-9.199e+04	-0.41	-9.310e+04	-0.43	-9.422e+04	-0.43	-9.425e+04	-0.43	-9.429e+04	-0.43	-9.436e+04
	-0.43	-9.450e+04	-0.43	-9.478e+04	-0.44	-9.534e+04	-0.45	-9.645e+04	-0.45	-9.649e+04	-0.45	-9.652e+04
	-0.45	-9.659e+04	-0.45	-9.673e+04	-0.46	-9.701e+04	-0.46	-9.757e+04	-0.48	-9.868e+04	-0.49	-9.980e+04
	-0.49	-9.984e+04	-0.49	-9.991e+04	-0.49	-1.000e+05	-0.50	-1.003e+05	-0.50	-1.009e+05	-0.52	-1.020e+05
	-0.52	-1.020e+05	-0.52	-1.021e+05	-0.52	-1.021e+05	-0.52	-1.023e+05	-0.52	-1.026e+05	-0.53	-1.031e+05
	-0.55	-1.042e+05	-0.56	-1.053e+05	-0.56	-1.054e+05	-0.56	-1.054e+05	-0.56	-1.055e+05	-0.56	-1.056e+05
	-0.57	-1.059e+05	-0.58	-1.065e+05	-0.59	-1.076e+05	-0.61	-1.087e+05	-0.61	-1.087e+05	-0.62	-1.088e+05
	-0.62	-1.088e+05	-0.62	-1.090e+05	-0.62	-1.093e+05	-0.64	-1.098e+05	-0.66	-1.109e+05	-0.66	-1.110e+05
	-0.66	-1.110e+05	-0.66	-1.111e+05	-0.67	-1.112e+05	-0.67	-1.115e+05	-0.69	-1.120e+05	-0.71	-1.132e+05
	-0.74	-1.143e+05	-0.77	-1.154e+05	-0.77	-1.154e+05	-0.77	-1.155e+05	-0.77	-1.155e+05	-0.77	-1.157e+05
	-0.78	-1.160e+05	-0.79	-1.165e+05	-0.83	-1.176e+05	-0.83	-1.177e+05	-0.83	-1.177e+05	-0.83	-1.178e+05
	-0.83	-1.179e+05	-0.84	-1.182e+05	-0.86	-1.187e+05	-0.86	-1.188e+05	-0.86	-1.188e+05	-0.87	-1.189e+05
	-0.87	-1.190e+05	-0.88	-1.193e+05	-0.90	-1.199e+05	-0.94	-1.210e+05	-0.94	-1.210e+05	-0.94	-1.210e+05
	-0.95	-1.211e+05	-0.95	-1.213e+05	-0.96	-1.215e+05	-0.97	-1.216e+05	-0.97	-1.216e+05	-0.98	-1.218e+05
	-0.99	-1.221e+05	-1.01	-1.226e+05	-1.02	-1.226e+05	-1.02	-1.227e+05	-1.02	-1.228e+05	-1.03	-1.229e+05
	-1.04	-1.232e+05	-1.04	-1.232e+05	-1.04	-1.232e+05	-1.05	-1.233e+05	-1.05	-1.233e+05	-1.06	-1.235e+05

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-1.07	-1.238e+05	-1.08	-1.238e+05	-1.08	-1.238e+05	-1.08	-1.239e+05	-1.09	-1.240e+05	-1.11	-1.243e+05
	-1.15	-1.249e+05	-1.15	-1.249e+05	-1.15	-1.250e+05	-1.16	-1.250e+05	-1.17	-1.252e+05	-1.19	-1.254e+05
	-1.23	-1.260e+05	-1.31	-1.271e+05	-1.31	-1.271e+05	-1.32	-1.272e+05	-1.33	-1.274e+05	-1.35	-1.276e+05
	-1.39	-1.282e+05	-1.47	-1.293e+05	-1.57	-1.304e+05						
Cmb	Sp. Dc	Tag. Fb										
	-1.57	-1.304e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
50	0.0	0.0	2.81e-04	69.8	8.43e-04	209.3	1.97e-03	488.4	4.21e-03	1046.5	8.71e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.09	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.13	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.17	4.346e+04	0.18	4.458e+04	0.18	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.22	5.351e+04	0.22	5.463e+04	0.22	5.574e+04
	0.23	5.686e+04	0.23	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.26	6.579e+04	0.27	6.691e+04	0.27	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.472e+04	0.31	7.584e+04
	0.31	7.695e+04	0.31	7.807e+04	0.31	7.810e+04	0.31	7.814e+04	0.31	7.821e+04	0.32	7.835e+04
	0.32	7.863e+04	0.32	7.919e+04	0.32	8.030e+04	0.33	8.142e+04	0.33	8.145e+04	0.33	8.149e+04
	0.33	8.156e+04	0.33	8.170e+04	0.33	8.198e+04	0.33	8.253e+04	0.34	8.365e+04	0.35	8.477e+04
	0.35	8.480e+04	0.35	8.484e+04	0.35	8.491e+04	0.35	8.505e+04	0.35	8.532e+04	0.35	8.588e+04
	0.35	8.592e+04	0.35	8.595e+04	0.35	8.602e+04	0.35	8.616e+04	0.36	8.644e+04	0.36	8.700e+04
	0.37	8.812e+04	0.37	8.923e+04	0.38	9.035e+04	0.39	9.146e+04	0.39	9.150e+04	0.39	9.153e+04
	0.39	9.160e+04	0.39	9.174e+04	0.39	9.202e+04	0.39	9.258e+04	0.40	9.370e+04	0.41	9.481e+04
	0.42	9.593e+04	0.42	9.596e+04	0.42	9.600e+04	0.42	9.607e+04	0.42	9.621e+04	0.42	9.624e+04
	0.42	9.628e+04	0.42	9.635e+04	0.42	9.638e+04	0.42	9.642e+04	0.42	9.649e+04	0.42	9.663e+04
	0.43	9.691e+04	0.43	9.694e+04	0.43	9.698e+04	0.43	9.705e+04	0.43	9.718e+04	0.43	9.746e+04
	0.44	9.802e+04	0.45	9.914e+04	0.45	9.917e+04	0.45	9.924e+04	0.46	9.938e+04	0.46	9.966e+04
	0.47	1.002e+05	0.48	1.013e+05	0.49	1.025e+05	0.51	1.036e+05	0.52	1.047e+05	0.54	1.058e+05
	0.54	1.058e+05	0.54	1.059e+05	0.54	1.059e+05	0.54	1.061e+05	0.54	1.064e+05	0.55	1.069e+05
	0.55	1.070e+05	0.55	1.070e+05	0.55	1.071e+05	0.55	1.072e+05	0.55	1.072e+05	0.56	1.073e+05
	0.56	1.074e+05	0.56	1.077e+05	0.57	1.083e+05	0.59	1.094e+05	0.59	1.094e+05	0.59	1.095e+05
	0.59	1.095e+05	0.59	1.097e+05	0.60	1.100e+05	0.61	1.105e+05	0.63	1.116e+05	0.64	1.127e+05
	0.66	1.139e+05	0.68	1.150e+05	0.70	1.161e+05	0.70	1.161e+05	0.70	1.162e+05	0.70	1.162e+05
	0.71	1.164e+05	0.71	1.166e+05	0.72	1.172e+05	0.74	1.183e+05	0.74	1.184e+05	0.74	1.184e+05
	0.75	1.185e+05	0.75	1.186e+05	0.75	1.189e+05	0.77	1.194e+05	0.79	1.206e+05	0.79	1.206e+05
	0.79	1.206e+05	0.79	1.207e+05	0.80	1.208e+05	0.80	1.211e+05	0.80	1.211e+05	0.81	1.212e+05
	0.81	1.213e+05	0.81	1.214e+05	0.82	1.217e+05	0.84	1.222e+05	0.84	1.223e+05	0.84	1.223e+05
	0.84	1.224e+05	0.84	1.225e+05	0.85	1.228e+05	0.87	1.233e+05	0.91	1.245e+05	0.91	1.245e+05
	0.91	1.245e+05	0.92	1.246e+05	0.92	1.247e+05	0.93	1.250e+05	0.96	1.256e+05	1.01	1.267e+05
	1.01	1.267e+05	1.01	1.268e+05	1.01	1.268e+05	1.02	1.269e+05	1.02	1.269e+05	1.02	1.269e+05
	1.03	1.270e+05	1.03	1.271e+05	1.05	1.274e+05	1.10	1.280e+05				
Cmb	Sp. Dc	Tag. Fb										
	0.0	0.0										
	1.10	1.280e+05										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
51	0.0	0.0	-2.80e-04	-69.8	-8.40e-04	-209.3	-1.96e-03	-488.4	-4.20e-03	-1046.5	-8.68e-03	-2162.8
	-0.01	-3279.0	-0.02	-4395.3	-0.02	-5511.6	-0.03	-6627.8	-0.03	-7744.1	-0.04	-8860.4
	-0.04	-9976.6	-0.04	-1.109e+04	-0.05	-1.221e+04	-0.05	-1.333e+04	-0.06	-1.444e+04	-0.06	-1.556e+04
	-0.07	-1.667e+04	-0.07	-1.779e+04	-0.08	-1.891e+04	-0.08	-2.002e+04	-0.08	-2.114e+04	-0.09	-2.226e+04
	-0.09	-2.337e+04	-0.10	-2.449e+04	-0.10	-2.560e+04	-0.11	-2.672e+04	-0.11	-2.784e+04	-0.12	-2.895e+04
	-0.12	-3.007e+04	-0.13	-3.119e+04	-0.13	-3.230e+04	-0.13	-3.342e+04	-0.14	-3.453e+04	-0.14	-3.565e+04
	-0.15	-3.677e+04	-0.15	-3.788e+04	-0.16	-3.900e+04	-0.16	-4.012e+04	-0.17	-4.123e+04	-0.17	-4.235e+04
	-0.17	-4.346e+04	-0.18	-4.458e+04	-0.18	-4.570e+04	-0.19	-4.681e+04	-0.19	-4.793e+04	-0.20	-4.905e+04
	-0.20	-5.016e+04	-0.21	-5.128e+04	-0.21	-5.239e+04	-0.21	-5.351e+04	-0.22	-5.463e+04	-0.22	-5.574e+04
	-0.23	-5.686e+04	-0.23	-5.798e+04	-0.24	-5.909e+04	-0.24	-6.021e+04	-0.25	-6.132e+04	-0.25	-6.244e+04
	-0.26	-6.356e+04	-0.26	-6.467e+04	-0.26	-6.579e+04	-0.27	-6.691e+04	-0.27	-6.802e+04	-0.28	-6.914e+04
	-0.28	-7.026e+04	-0.29	-7.137e+04	-0.29	-7.249e+04	-0.30	-7.360e+04	-0.30	-7.472e+04	-0.30	-7.584e+04
	-0.30	-7.587e+04	-0.31	-7.591e+04	-0.31	-7.598e+04	-0.31	-7.612e+04	-0.31	-7.639e+04	-0.31	-7.695e+04
	-0.31	-7.807e+04	-0.32	-7.919e+04	-0.32	-8.030e+04	-0.33	-8.142e+04	-0.33	-8.145e+04	-0.33	-8.152e+04
	-0.33	-8.166e+04	-0.33	-8.194e+04	-0.33	-8.250e+04	-0.34	-8.362e+04	-0.34	-8.473e+04	-0.35	-8.477e+04
	-0.35	-8.480e+04	-0.35	-8.487e+04	-0.35	-8.501e+04	-0.35	-8.529e+04	-0.35	-8.585e+04	-0.36	-8.696e+04
	-0.36	-8.700e+04	-0.36	-8.703e+04	-0.36	-8.710e+04	-0.36	-8.724e+04	-0.36	-8.752e+04	-0.36	-8.808e+04

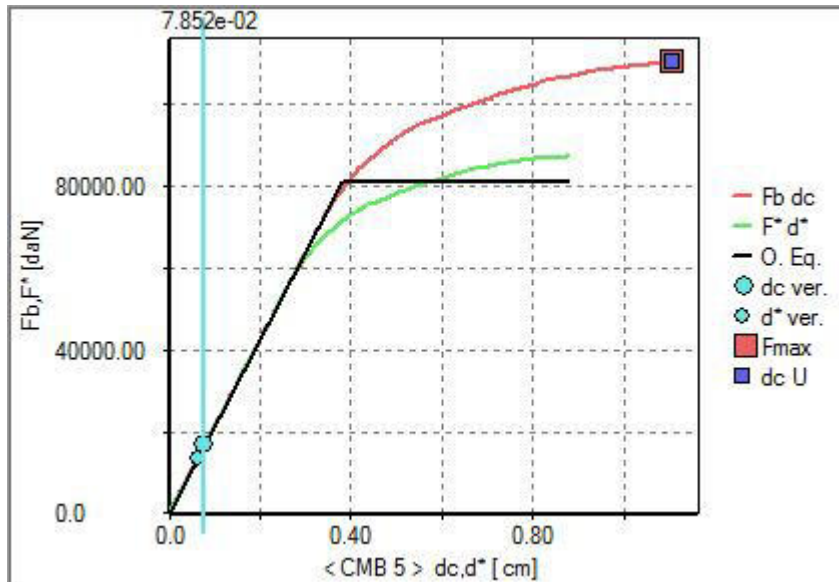
Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	-0.37	-8.920e+04	-0.37	-9.031e+04	-0.38	-9.143e+04	-0.38	-9.146e+04	-0.38	-9.150e+04	-0.38	-9.157e+04
	-0.38	-9.171e+04	-0.38	-9.199e+04	-0.38	-9.202e+04	-0.38	-9.206e+04	-0.38	-9.213e+04	-0.39	-9.227e+04
	-0.39	-9.255e+04	-0.39	-9.258e+04	-0.39	-9.262e+04	-0.39	-9.269e+04	-0.39	-9.282e+04	-0.39	-9.310e+04
	-0.40	-9.366e+04	-0.40	-9.478e+04	-0.40	-9.481e+04	-0.40	-9.485e+04	-0.41	-9.492e+04	-0.41	-9.506e+04
	-0.41	-9.509e+04	-0.41	-9.513e+04	-0.41	-9.520e+04	-0.41	-9.534e+04	-0.41	-9.562e+04	-0.42	-9.617e+04
	-0.43	-9.729e+04	-0.43	-9.732e+04	-0.43	-9.736e+04	-0.43	-9.743e+04	-0.43	-9.757e+04	-0.43	-9.785e+04
	-0.44	-9.841e+04	-0.45	-9.952e+04	-0.47	-1.006e+05	-0.47	-1.007e+05	-0.47	-1.007e+05	-0.47	-1.008e+05
	-0.47	-1.009e+05	-0.47	-1.012e+05	-0.48	-1.018e+05	-0.49	-1.029e+05	-0.51	-1.040e+05	-0.52	-1.051e+05
	-0.52	-1.051e+05	-0.52	-1.052e+05	-0.52	-1.052e+05	-0.53	-1.054e+05	-0.53	-1.057e+05	-0.54	-1.062e+05
	-0.55	-1.073e+05	-0.55	-1.074e+05	-0.55	-1.074e+05	-0.56	-1.076e+05	-0.56	-1.079e+05	-0.57	-1.084e+05
	-0.59	-1.095e+05	-0.59	-1.096e+05	-0.59	-1.096e+05	-0.59	-1.097e+05	-0.59	-1.098e+05	-0.59	-1.101e+05
	-0.60	-1.106e+05	-0.60	-1.107e+05	-0.60	-1.107e+05	-0.61	-1.108e+05	-0.61	-1.109e+05	-0.61	-1.112e+05
	-0.62	-1.118e+05	-0.64	-1.129e+05	-0.65	-1.129e+05	-0.65	-1.130e+05	-0.65	-1.130e+05	-0.65	-1.132e+05
	-0.66	-1.134e+05	-0.67	-1.140e+05	-0.69	-1.151e+05	-0.69	-1.151e+05	-0.69	-1.152e+05	-0.69	-1.153e+05
	-0.70	-1.154e+05	-0.70	-1.157e+05	-0.71	-1.157e+05	-0.71	-1.157e+05	-0.71	-1.158e+05	-0.71	-1.160e+05
	-0.72	-1.162e+05	-0.72	-1.163e+05	-0.72	-1.163e+05	-0.73	-1.164e+05	-0.73	-1.165e+05	-0.74	-1.168e+05
	-0.76	-1.173e+05	-0.81	-1.185e+05	-0.81	-1.185e+05	-0.81	-1.185e+05	-0.81	-1.186e+05	-0.82	-1.187e+05
	-0.83	-1.190e+05	-0.86	-1.196e+05	-0.86	-1.196e+05	-0.86	-1.196e+05	-0.87	-1.197e+05	-0.87	-1.199e+05
	-0.89	-1.201e+05	-0.91	-1.207e+05	-0.97	-1.218e+05	-0.97	-1.218e+05	-0.98	-1.219e+05	-0.98	-1.221e+05
	-1.00	-1.223e+05	-1.00	-1.224e+05	-1.00	-1.224e+05	-1.00	-1.224e+05	-1.01	-1.225e+05	-1.01	-1.225e+05
	-1.02	-1.227e+05	-1.04	-1.230e+05	-1.04	-1.230e+05	-1.04	-1.230e+05	-1.05	-1.231e+05	-1.05	-1.232e+05
	-1.07	-1.235e+05	-1.11	-1.241e+05	-1.18	-1.252e+05	-1.26	-1.263e+05	-1.33	-1.274e+05	-1.34	-1.275e+05
	-1.34	-1.275e+05	-1.34	-1.276e+05	-1.35	-1.277e+05	-1.37	-1.280e+05	-1.41	-1.285e+05	-1.50	-1.297e+05
	-1.50	-1.297e+05	-1.51	-1.298e+05	-1.52	-1.299e+05	-1.54	-1.302e+05	-1.58	-1.307e+05	-1.66	-1.319e+05
	-1.79	-1.330e+05										
Cmb	Sp. Dc	Tag. Fb										
	-1.79	-1.330e+05										
	0.0	0.0										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN	cm	daN
52	0.0	0.0	2.80e-04	69.8	8.40e-04	209.3	1.96e-03	488.4	4.20e-03	1046.5	8.68e-03	2162.8
	0.01	3279.0	0.02	4395.3	0.02	5511.6	0.03	6627.8	0.03	7744.1	0.04	8860.4
	0.04	9976.6	0.04	1.109e+04	0.05	1.221e+04	0.05	1.333e+04	0.06	1.444e+04	0.06	1.556e+04
	0.07	1.667e+04	0.07	1.779e+04	0.08	1.891e+04	0.08	2.002e+04	0.08	2.114e+04	0.09	2.226e+04
	0.09	2.337e+04	0.10	2.449e+04	0.10	2.560e+04	0.11	2.672e+04	0.11	2.784e+04	0.12	2.895e+04
	0.12	3.007e+04	0.13	3.119e+04	0.13	3.230e+04	0.13	3.342e+04	0.14	3.453e+04	0.14	3.565e+04
	0.15	3.677e+04	0.15	3.788e+04	0.16	3.900e+04	0.16	4.012e+04	0.17	4.123e+04	0.17	4.235e+04
	0.17	4.346e+04	0.18	4.458e+04	0.18	4.570e+04	0.19	4.681e+04	0.19	4.793e+04	0.20	4.905e+04
	0.20	5.016e+04	0.21	5.128e+04	0.21	5.239e+04	0.21	5.351e+04	0.22	5.463e+04	0.22	5.574e+04
	0.23	5.686e+04	0.23	5.798e+04	0.24	5.909e+04	0.24	6.021e+04	0.25	6.132e+04	0.25	6.244e+04
	0.26	6.356e+04	0.26	6.467e+04	0.26	6.579e+04	0.27	6.691e+04	0.27	6.802e+04	0.28	6.914e+04
	0.28	7.026e+04	0.29	7.137e+04	0.29	7.249e+04	0.30	7.360e+04	0.30	7.472e+04	0.30	7.584e+04
	0.30	7.587e+04	0.30	7.594e+04	0.31	7.608e+04	0.31	7.636e+04	0.31	7.692e+04	0.31	7.803e+04
	0.32	7.915e+04	0.32	8.027e+04	0.33	8.138e+04	0.33	8.250e+04	0.34	8.362e+04	0.34	8.473e+04
	0.34	8.477e+04	0.34	8.480e+04	0.34	8.487e+04	0.34	8.501e+04	0.34	8.529e+04	0.35	8.585e+04
	0.35	8.588e+04	0.35	8.592e+04	0.35	8.599e+04	0.35	8.613e+04	0.35	8.616e+04	0.35	8.620e+04
	0.35	8.627e+04	0.35	8.641e+04	0.35	8.669e+04	0.35	8.724e+04	0.36	8.836e+04	0.37	8.948e+04
	0.37	9.059e+04	0.38	9.171e+04	0.38	9.174e+04	0.38	9.181e+04	0.38	9.195e+04	0.38	9.223e+04
	0.39	9.279e+04	0.39	9.391e+04	0.39	9.394e+04	0.39	9.398e+04	0.39	9.405e+04	0.40	9.419e+04
	0.40	9.446e+04	0.40	9.502e+04	0.41	9.614e+04	0.42	9.725e+04	0.42	9.729e+04	0.42	9.732e+04
	0.42	9.739e+04	0.42	9.753e+04	0.42	9.781e+04	0.42	9.837e+04	0.43	9.949e+04	0.43	9.952e+04
	0.43	9.959e+04	0.43	9.973e+04	0.44	1.000e+05	0.44	1.006e+05	0.45	1.017e+05	0.45	1.017e+05
	0.45	1.018e+05	0.45	1.018e+05	0.45	1.019e+05	0.45	1.019e+05	0.45	1.020e+05	0.45	1.021e+05
	0.46	1.024e+05	0.46	1.029e+05	0.47	1.041e+05	0.48	1.052e+05	0.50	1.063e+05	0.50	1.063e+05
	0.50	1.064e+05	0.50	1.064e+05	0.50	1.066e+05	0.50	1.068e+05	0.50	1.069e+05	0.50	1.069e+05
	0.51	1.070e+05	0.51	1.071e+05	0.51	1.072e+05	0.51	1.072e+05	0.51	1.073e+05	0.51	1.074e+05
	0.52	1.077e+05	0.52	1.082e+05	0.54	1.094e+05	0.54	1.094e+05	0.54	1.094e+05	0.54	1.095e+05
	0.54	1.096e+05	0.55	1.099e+05	0.56	1.105e+05	0.57	1.116e+05	0.59	1.127e+05	0.59	1.127e+05
	0.59	1.128e+05	0.59	1.128e+05	0.59	1.129e+05	0.60	1.131e+05	0.60	1.133e+05	0.61	1.139e+05
	0.63	1.150e+05	0.63	1.150e+05	0.63	1.151e+05	0.63	1.151e+05	0.63	1.153e+05	0.64	1.156e+05
	0.65	1.161e+05	0.65	1.162e+05	0.65	1.162e+05	0.65	1.163e+05	0.66	1.164e+05	0.66	1.164e+05
	0.66	1.165e+05	0.66	1.165e+05	0.66	1.167e+05	0.67	1.170e+05	0.67	1.170e+05	0.67	1.170e+05
	0.67	1.171e+05	0.68	1.172e+05	0.68	1.175e+05	0.70	1.181e+05	0.73	1.192e+05	0.73	1.192e+05
	0.73	1.193e+05	0.73	1.193e+05	0.74	1.195e+05	0.74	1.195e+05	0.74	1.195e+05	0.74	1.196e+05
	0.74	1.198e+05	0.75	1.200e+05	0.77	1.206e+05	0.81	1.217e+05	0.81	1.217e+05	0.81	1.218e+05
	0.81	1.218e+05	0.81	1.220e+05	0.82	1.223e+05	0.84	1.228e+05	0.84	1.228e+05	0.85	1.229e+05
	0.85	1.230e+05	0.85	1.231e+05	0.87	1.234e+05	0.89	1.239e+05	0.89	1.240e+05	0.89	1.240e+05
	0.89	1.241e+05	0.90	1.242e+05	0.91	1.245e+05	0.94	1.251e+05	0.94	1.251e+05	0.94	1.251e+05
	0.94	1.252e+05	0.95	1.253e+05	0.96	1.256e+05	0.99	1.262e+05	1.06	1.273e+05	1.07	1.273e+05
	1.07	1.274e+05	1.07	1.274e+05	1.09	1.276e+05						
Cmb	Sp. Dc	Tag. Fb										

Cmb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb	Sp. Dc	Tag. Fb
	0.0	0.0										
	1.09	1.276e+05										

Di seguito vengono riportate due curve di push-over con i relativi dati caratteristici:

Analisi combinazione n. 5



<===== ELABORAZIONE CURVA DI CAPACITA' =====>

Analisi terminata per: superato [rigidezza: limite inferiore]

Rapporto $F_b \max / F_b 1$: 1.41510e+00

Area sottesa dal diagramma E^* : 5.57535e+04

Spostamento d^* allo 0,7 di F_{bu} : -2.47699e-01

Rigidezza K^* : 2.12237e+05

Spostamento dy^* : 3.82287e-01

Taglio F_y^* : 8.11352e+04

Massa m^* : 4.80273e+04

Periodo T^* : 9.54288e-02

<===== CALCOLO DOMANDA DI SPOSTAMENTO =====>

Accelerazione $Se(T^*)$: 2.76052e-01

Spostamento $d^* e, \max$ (da $S_d(T^*)$) : 6.24682e-02

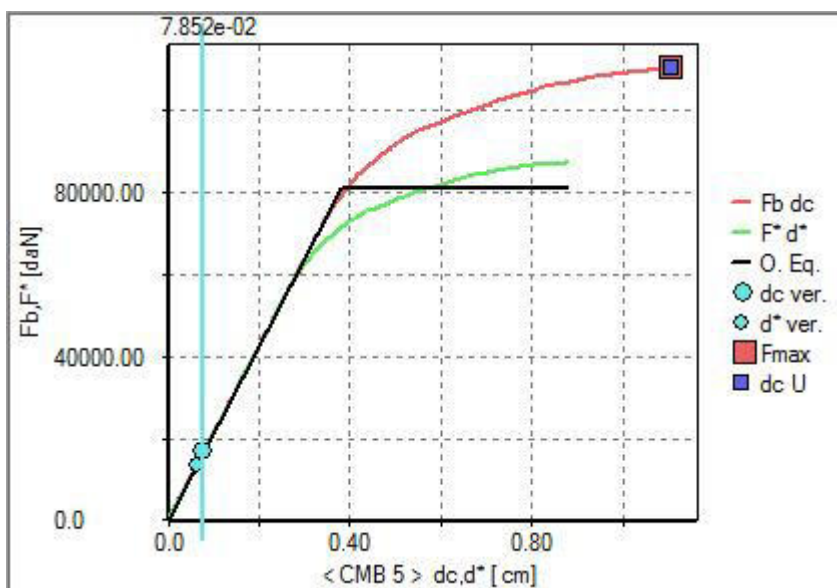
Fattore q^* : 1.63407e-01

Spostamento $d^* \max$: 6.24682e-02

Taglio F^* : 1.32580e+04

Spostamento Domanda SL: -7.87646e-02

<===== INFORMAZIONI AGGIUNTIVE =====>

Spostamento dc Fb max: -1.10744×10^0 Spostamento dc Ultimo: -1.10744×10^0 Taglio Fb max: -1.10476×10^5 Taglio Fb Ultimo: -1.10476×10^5 PGA dc Ultimo: 8.61497×10^{-1} Indicatore di rischio alfau: 8.48765×10^0 **Analisi combinazione n. 41**

<===== ELABORAZIONE CURVA DI CAPACITA' =====>

Analisi terminata per: superato [rigidezza: limite inferiore]

Rapporto Fb max/Fb 1: 1.52621×10^0 Area sottesa dal diagramma E*: 1.15051×10^5 Spostamento d* allo 0,7 di Fbu: -2.67881×10^{-1} Rigidezza K*: 2.44661×10^5 Spostamento dy*: 4.08606×10^{-1} Taglio Fy*: 9.99699×10^4 Massa m*: 5.71257×10^4 Periodo T*: 9.69346×10^{-2}

<===== CALCOLO DOMANDA DI SPOSTAMENTO =====>

Accelerazione Se(T*): 1.60230×10^{-1} Spostamento d* e,max (da Sd(T*)) : 3.74120×10^{-2}

Fattore q^* : 9.15600e-02

Spostamento d^* max: 3.74120e-02

Taglio F^* : 9.15325e+03

Spostamento Domanda SL: -4.45280e-02

<===== INFORMAZIONI AGGIUNTIVE =====>

Stato limite di danno: attinto per spostamento interpiano

Spostamento dc Danno: -1.06732e+00

Spostamento dc Fb max: -1.61292e+00

Spostamento dc Ultimo: -1.61292e+00

Taglio Fb Danno: -1.22789e+05

Taglio Fb max: -1.30010e+05

Taglio Fb Ultimo: -1.30010e+05

PGA dc Danno: 5.45000e-01

PGA dc Ultimo: 5.45000e-01

Indicatore di rischio α_{fae} : 1.00000e+01

Indicatore di rischio α_{fau} : 1.00000e+01

Pilas.	Cmb	1000 $\eta T/h$	ηT cm	ηP cm	ηD cm	lambda	X	inter. h cm
22	5	0.63	0.01	2.09e-03	5.21e-03	2.00	1.00	20.00
23	5	0.54	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	5	0.55	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	5	0.57	0.15	8.39e-03	0.07	2.00	1.00	270.00
29	5	0.44	8.73e-03	1.91e-03	3.41e-03	2.00	1.00	20.00
44	5	0.73	0.01	4.94e-03	4.79e-03	2.00	1.00	20.00
91	5	0.60	0.01	5.60e-03	3.16e-03	2.00	1.00	20.00
102	5	0.37	0.12	0.01	0.05	2.00	1.00	320.00
103	5	0.44	0.14	0.02	0.06	2.00	1.00	310.08
104	5	0.40	0.12	0.01	0.06	2.00	1.00	310.08
113	5	0.45	0.15	5.56e-03	0.07	2.00	1.00	329.31
153	5	0.43	0.13	9.83e-03	0.06	2.00	1.00	310.08
154	5	0.33	6.67e-03	7.32e-04	2.97e-03	2.00	1.00	20.00
156	5	0.36	0.12	9.44e-03	0.05	2.00	1.00	320.00
160	5	0.54	0.17	5.88e-03	0.08	2.00	1.00	319.20
161	5	0.58	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	5	0.57	0.17	4.20e-03	0.08	2.00	1.00	299.16
170	5	0.43	0.13	0.01	0.06	2.00	1.00	310.08
171	5	0.35	7.02e-03	3.20e-03	1.91e-03	2.00	1.00	20.00
188	5	0.40	8.02e-03	9.26e-04	3.55e-03	2.00	1.00	20.00
189	5	0.35	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	5	0.30	5.99e-03	1.58e-03	2.21e-03	2.00	1.00	20.00
191	5	0.51	0.01	6.90e-03	1.67e-03	2.00	1.00	20.00
192	5	0.86	0.02	9.58e-03	3.79e-03	2.00	1.00	20.00
193	5	1.47	0.03	0.02	5.99e-03	2.00	1.00	20.00
194	5	0.57	0.15	8.95e-03	0.07	2.00	1.00	270.00
195	5	0.56	0.15	6.29e-03	0.07	2.00	1.00	270.00
196	5	0.81	0.02	5.64e-03	5.27e-03	2.00	1.00	20.00
22	6	0.63	0.01	2.09e-03	5.28e-03	2.00	1.00	20.00
23	6	0.54	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	6	0.55	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	6	0.57	0.15	8.39e-03	0.07	2.00	1.00	270.00
29	6	0.44	8.75e-03	1.91e-03	3.42e-03	2.00	1.00	20.00
44	6	0.73	0.01	4.94e-03	4.79e-03	2.00	1.00	20.00
91	6	0.60	0.01	5.60e-03	3.16e-03	2.00	1.00	20.00

102	6	0.37	0.12	0.01	0.05	2.00	1.00	320.00
103	6	0.44	0.14	0.02	0.06	2.00	1.00	310.08
104	6	0.40	0.12	0.01	0.05	2.00	1.00	310.08
113	6	0.45	0.15	5.56e-03	0.07	2.00	1.00	329.31
153	6	0.43	0.13	9.83e-03	0.06	2.00	1.00	310.08
154	6	0.34	6.73e-03	7.32e-04	3.00e-03	2.00	1.00	20.00
156	6	0.36	0.12	9.44e-03	0.05	2.00	1.00	320.00
160	6	0.54	0.17	5.88e-03	0.08	2.00	1.00	319.20
161	6	0.58	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	6	0.58	0.17	4.20e-03	0.08	2.00	1.00	299.16
170	6	0.43	0.13	0.01	0.06	2.00	1.00	310.08
171	6	0.35	7.03e-03	3.20e-03	1.91e-03	2.00	1.00	20.00
188	6	0.39	7.88e-03	9.26e-04	3.48e-03	2.00	1.00	20.00
189	6	0.35	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	6	0.30	6.03e-03	1.58e-03	2.23e-03	2.00	1.00	20.00
191	6	0.51	0.01	6.90e-03	1.68e-03	2.00	1.00	20.00
192	6	0.86	0.02	9.58e-03	3.79e-03	2.00	1.00	20.00
193	6	1.45	0.03	0.02	5.87e-03	2.00	1.00	20.00
194	6	0.57	0.15	8.95e-03	0.07	2.00	1.00	270.00
195	6	0.56	0.15	6.29e-03	0.07	2.00	1.00	270.00
196	6	0.80	0.02	5.64e-03	5.22e-03	2.00	1.00	20.00
22	7	0.63	0.01	2.09e-03	5.30e-03	2.00	1.00	20.00
23	7	0.55	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	7	0.55	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	7	0.57	0.15	8.39e-03	0.07	2.00	1.00	270.00
29	7	0.44	8.75e-03	1.91e-03	3.42e-03	2.00	1.00	20.00
44	7	0.73	0.01	4.94e-03	4.85e-03	2.00	1.00	20.00
91	7	0.59	0.01	5.60e-03	3.09e-03	2.00	1.00	20.00
102	7	0.37	0.12	0.01	0.05	2.00	1.00	320.00
103	7	0.43	0.13	0.02	0.06	2.00	1.00	310.08
104	7	0.35	0.11	0.01	0.05	2.00	1.00	310.08
113	7	0.45	0.15	5.56e-03	0.07	2.00	1.00	329.31
153	7	0.43	0.13	9.83e-03	0.06	2.00	1.00	310.08
154	7	0.34	6.72e-03	7.32e-04	2.99e-03	2.00	1.00	20.00
156	7	0.36	0.12	9.44e-03	0.05	2.00	1.00	320.00
160	7	0.54	0.17	5.88e-03	0.08	2.00	1.00	319.20
161	7	0.58	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	7	0.58	0.17	4.20e-03	0.08	2.00	1.00	299.16
170	7	0.43	0.13	0.01	0.06	2.00	1.00	310.08
171	7	0.35	7.01e-03	3.20e-03	1.91e-03	2.00	1.00	20.00
188	7	0.40	8.06e-03	9.26e-04	3.57e-03	2.00	1.00	20.00
189	7	0.35	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	7	0.30	6.02e-03	1.58e-03	2.22e-03	2.00	1.00	20.00
191	7	0.51	0.01	6.90e-03	1.67e-03	2.00	1.00	20.00
192	7	0.86	0.02	9.58e-03	3.85e-03	2.00	1.00	20.00
193	7	1.47	0.03	0.02	6.01e-03	2.00	1.00	20.00
194	7	0.57	0.16	8.95e-03	0.07	2.00	1.00	270.00
195	7	0.56	0.15	6.29e-03	0.07	2.00	1.00	270.00
196	7	0.81	0.02	5.64e-03	5.31e-03	2.00	1.00	20.00
22	8	0.64	0.01	2.09e-03	5.37e-03	2.00	1.00	20.00
23	8	0.55	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	8	0.55	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	8	0.56	0.15	8.39e-03	0.07	2.00	1.00	270.00
29	8	0.44	8.77e-03	1.91e-03	3.43e-03	2.00	1.00	20.00
44	8	0.73	0.01	4.94e-03	4.86e-03	2.00	1.00	20.00
91	8	0.59	0.01	5.60e-03	3.09e-03	2.00	1.00	20.00
102	8	0.37	0.12	0.01	0.05	2.00	1.00	320.00
103	8	0.43	0.13	0.02	0.06	2.00	1.00	310.08
104	8	0.35	0.11	0.01	0.05	2.00	1.00	310.08
113	8	0.46	0.15	5.56e-03	0.07	2.00	1.00	329.31
153	8	0.43	0.13	9.83e-03	0.06	2.00	1.00	310.08
154	8	0.34	6.77e-03	7.32e-04	3.02e-03	2.00	1.00	20.00
156	8	0.36	0.12	9.44e-03	0.05	2.00	1.00	320.00
160	8	0.55	0.18	5.88e-03	0.08	2.00	1.00	319.20
161	8	0.59	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	8	0.58	0.17	4.20e-03	0.09	2.00	1.00	299.16
170	8	0.43	0.13	0.01	0.06	2.00	1.00	310.08
171	8	0.35	7.01e-03	3.20e-03	1.91e-03	2.00	1.00	20.00
188	8	0.40	7.90e-03	9.26e-04	3.49e-03	2.00	1.00	20.00
189	8	0.35	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	8	0.30	6.05e-03	1.58e-03	2.24e-03	2.00	1.00	20.00
191	8	0.51	0.01	6.90e-03	1.68e-03	2.00	1.00	20.00
192	8	0.86	0.02	9.58e-03	3.85e-03	2.00	1.00	20.00
193	8	1.46	0.03	0.02	5.90e-03	2.00	1.00	20.00
194	8	0.57	0.15	8.95e-03	0.07	2.00	1.00	270.00
195	8	0.56	0.15	6.29e-03	0.07	2.00	1.00	270.00
196	8	0.81	0.02	5.64e-03	5.27e-03	2.00	1.00	20.00
22	9	0.65	0.01	2.09e-03	5.45e-03	2.00	1.00	20.00

23	9	0.55	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	9	0.57	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	9	0.62	0.17	8.39e-03	0.08	2.00	1.00	270.00
29	9	0.36	7.26e-03	1.91e-03	2.68e-03	2.00	1.00	20.00
44	9	0.81	0.02	4.94e-03	5.60e-03	2.00	1.00	20.00
91	9	0.64	0.01	5.60e-03	3.57e-03	2.00	1.00	20.00
102	9	0.50	0.16	0.01	0.07	2.00	1.00	320.00
103	9	0.53	0.16	0.02	0.07	2.00	1.00	310.08
104	9	0.51	0.16	0.01	0.07	2.00	1.00	310.08
113	9	0.50	0.16	5.56e-03	0.08	2.00	1.00	329.31
153	9	0.48	0.15	9.83e-03	0.07	2.00	1.00	310.08
154	9	0.18	3.69e-03	7.32e-04	1.48e-03	2.00	1.00	20.00
156	9	0.46	0.15	9.44e-03	0.07	2.00	1.00	320.00
160	9	0.51	0.16	5.88e-03	0.08	2.00	1.00	319.20
161	9	0.53	0.16	5.54e-03	0.08	2.00	1.00	309.28
162	9	0.54	0.16	4.20e-03	0.08	2.00	1.00	299.16
170	9	0.51	0.16	0.01	0.07	2.00	1.00	310.08
171	9	0.60	0.01	3.20e-03	4.45e-03	2.00	1.00	20.00
188	9	0.18	3.63e-03	9.26e-04	1.35e-03	2.00	1.00	20.00
189	9	0.48	0.16	5.49e-03	0.07	2.00	1.00	320.00
190	9	0.54	0.01	1.58e-03	4.60e-03	2.00	1.00	20.00
191	9	0.78	0.02	6.90e-03	4.40e-03	2.00	1.00	20.00
192	9	0.98	0.02	9.58e-03	5.05e-03	2.00	1.00	20.00
193	9	1.51	0.03	0.02	6.39e-03	2.00	1.00	20.00
194	9	0.58	0.16	8.95e-03	0.07	2.00	1.00	270.00
195	9	0.53	0.14	6.29e-03	0.07	2.00	1.00	270.00
196	9	0.86	0.02	5.64e-03	5.81e-03	2.00	1.00	20.00
22	10	0.65	0.01	2.09e-03	5.47e-03	2.00	1.00	20.00
23	10	0.55	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	10	0.57	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	10	0.61	0.16	8.39e-03	0.08	2.00	1.00	270.00
29	10	0.36	7.27e-03	1.91e-03	2.68e-03	2.00	1.00	20.00
44	10	0.81	0.02	4.94e-03	5.59e-03	2.00	1.00	20.00
91	10	0.63	0.01	5.60e-03	3.55e-03	2.00	1.00	20.00
102	10	0.50	0.16	0.01	0.07	2.00	1.00	320.00
103	10	0.53	0.16	0.02	0.07	2.00	1.00	310.08
104	10	0.51	0.16	0.01	0.07	2.00	1.00	310.08
113	10	0.50	0.16	5.56e-03	0.08	2.00	1.00	329.31
153	10	0.48	0.15	9.83e-03	0.07	2.00	1.00	310.08
154	10	0.18	3.69e-03	7.32e-04	1.48e-03	2.00	1.00	20.00
156	10	0.46	0.15	9.44e-03	0.07	2.00	1.00	320.00
160	10	0.52	0.16	5.88e-03	0.08	2.00	1.00	319.20
161	10	0.53	0.16	5.54e-03	0.08	2.00	1.00	309.28
162	10	0.54	0.16	4.20e-03	0.08	2.00	1.00	299.16
170	10	0.51	0.16	0.01	0.07	2.00	1.00	310.08
171	10	0.61	0.01	3.20e-03	4.46e-03	2.00	1.00	20.00
188	10	0.18	3.62e-03	9.26e-04	1.35e-03	2.00	1.00	20.00
189	10	0.49	0.16	5.49e-03	0.08	2.00	1.00	320.00
190	10	0.54	0.01	1.58e-03	4.62e-03	2.00	1.00	20.00
191	10	0.79	0.02	6.90e-03	4.40e-03	2.00	1.00	20.00
192	10	0.98	0.02	9.58e-03	5.06e-03	2.00	1.00	20.00
193	10	1.50	0.03	0.02	6.35e-03	2.00	1.00	20.00
194	10	0.58	0.16	8.95e-03	0.07	2.00	1.00	270.00
195	10	0.53	0.14	6.29e-03	0.07	2.00	1.00	270.00
196	10	0.86	0.02	5.64e-03	5.81e-03	2.00	1.00	20.00
22	11	0.71	0.01	2.09e-03	6.10e-03	2.00	1.00	20.00
23	11	0.62	0.17	2.52e-03	0.08	2.00	1.00	270.00
24	11	0.61	0.17	3.96e-03	0.08	2.00	1.00	270.00
27	11	0.53	0.14	8.39e-03	0.07	2.00	1.00	270.00
29	11	0.36	7.22e-03	1.91e-03	2.66e-03	2.00	1.00	20.00
44	11	0.81	0.02	4.94e-03	5.60e-03	2.00	1.00	20.00
91	11	0.60	0.01	5.60e-03	3.23e-03	2.00	1.00	20.00
102	11	0.54	0.17	0.01	0.08	2.00	1.00	320.00
103	11	0.48	0.15	0.02	0.07	2.00	1.00	310.08
104	11	0.46	0.14	0.01	0.06	2.00	1.00	310.08
113	11	0.56	0.19	5.56e-03	0.09	2.00	1.00	329.31
153	11	0.48	0.15	9.83e-03	0.07	2.00	1.00	310.08
154	11	0.19	3.88e-03	7.32e-04	1.57e-03	2.00	1.00	20.00
156	11	0.47	0.15	9.44e-03	0.07	2.00	1.00	320.00
160	11	0.58	0.19	5.88e-03	0.09	2.00	1.00	319.20
161	11	0.60	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	11	0.61	0.18	4.20e-03	0.09	2.00	1.00	299.16
170	11	0.47	0.15	0.01	0.07	2.00	1.00	310.08
171	11	0.57	0.01	3.20e-03	4.10e-03	2.00	1.00	20.00
188	11	0.18	3.59e-03	9.26e-04	1.33e-03	2.00	1.00	20.00
189	11	0.55	0.18	5.49e-03	0.08	2.00	1.00	320.00
190	11	0.59	0.01	1.58e-03	5.15e-03	2.00	1.00	20.00
191	11	0.82	0.02	6.90e-03	4.77e-03	2.00	1.00	20.00

192	11	1.01	0.02	9.58e-03	5.36e-03	2.00	1.00	20.00
193	11	1.43	0.03	0.02	5.57e-03	2.00	1.00	20.00
194	11	0.53	0.14	8.95e-03	0.07	2.00	1.00	270.00
195	11	0.53	0.14	6.29e-03	0.07	2.00	1.00	270.00
196	11	0.81	0.02	5.64e-03	5.30e-03	2.00	1.00	20.00
22	12	0.72	0.01	2.09e-03	6.12e-03	2.00	1.00	20.00
23	12	0.62	0.17	2.52e-03	0.08	2.00	1.00	270.00
24	12	0.61	0.17	3.96e-03	0.08	2.00	1.00	270.00
27	12	0.52	0.14	8.39e-03	0.07	2.00	1.00	270.00
29	12	0.36	7.23e-03	1.91e-03	2.66e-03	2.00	1.00	20.00
44	12	0.81	0.02	4.94e-03	5.59e-03	2.00	1.00	20.00
91	12	0.60	0.01	5.60e-03	3.20e-03	2.00	1.00	20.00
102	12	0.54	0.17	0.01	0.08	2.00	1.00	320.00
103	12	0.47	0.15	0.02	0.07	2.00	1.00	310.08
104	12	0.46	0.14	0.01	0.06	2.00	1.00	310.08
113	12	0.57	0.19	5.56e-03	0.09	2.00	1.00	329.31
153	12	0.48	0.15	9.83e-03	0.07	2.00	1.00	310.08
154	12	0.19	3.89e-03	7.32e-04	1.58e-03	2.00	1.00	20.00
156	12	0.47	0.15	9.44e-03	0.07	2.00	1.00	320.00
160	12	0.58	0.19	5.88e-03	0.09	2.00	1.00	319.20
161	12	0.60	0.19	5.54e-03	0.09	2.00	1.00	309.28
162	12	0.61	0.18	4.20e-03	0.09	2.00	1.00	299.16
170	12	0.47	0.15	0.01	0.07	2.00	1.00	310.08
171	12	0.57	0.01	3.20e-03	4.10e-03	2.00	1.00	20.00
188	12	0.18	3.61e-03	9.26e-04	1.34e-03	2.00	1.00	20.00
189	12	0.55	0.18	5.49e-03	0.09	2.00	1.00	320.00
190	12	0.60	0.01	1.58e-03	5.17e-03	2.00	1.00	20.00
191	12	0.82	0.02	6.90e-03	4.78e-03	2.00	1.00	20.00
192	12	1.02	0.02	9.58e-03	5.37e-03	2.00	1.00	20.00
193	12	1.42	0.03	0.02	5.51e-03	2.00	1.00	20.00
194	12	0.53	0.14	8.95e-03	0.07	2.00	1.00	270.00
195	12	0.53	0.14	6.29e-03	0.07	2.00	1.00	270.00
196	12	0.81	0.02	5.64e-03	5.29e-03	2.00	1.00	20.00
22	13	0.64	0.01	2.09e-03	5.37e-03	2.00	1.00	20.00
23	13	0.56	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	13	0.56	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	13	0.59	0.16	8.39e-03	0.07	2.00	1.00	270.00
29	13	0.42	8.50e-03	1.91e-03	3.30e-03	2.00	1.00	20.00
44	13	0.74	0.01	4.94e-03	4.93e-03	2.00	1.00	20.00
91	13	0.59	0.01	5.60e-03	3.06e-03	2.00	1.00	20.00
102	13	0.35	0.11	0.01	0.05	2.00	1.00	320.00
103	13	0.42	0.13	0.02	0.06	2.00	1.00	310.08
104	13	0.39	0.12	0.01	0.05	2.00	1.00	310.08
113	13	0.43	0.14	5.56e-03	0.07	2.00	1.00	329.31
153	13	0.41	0.13	9.83e-03	0.06	2.00	1.00	310.08
154	13	0.32	6.40e-03	7.32e-04	2.83e-03	2.00	1.00	20.00
156	13	0.34	0.11	9.44e-03	0.05	2.00	1.00	320.00
160	13	0.53	0.17	5.88e-03	0.08	2.00	1.00	319.20
161	13	0.58	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	13	0.58	0.17	4.20e-03	0.09	2.00	1.00	299.16
170	13	0.42	0.13	0.01	0.06	2.00	1.00	310.08
171	13	0.35	6.90e-03	3.20e-03	1.85e-03	2.00	1.00	20.00
188	13	0.39	7.71e-03	9.26e-04	3.39e-03	2.00	1.00	20.00
189	13	0.34	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	13	0.29	5.81e-03	1.58e-03	2.12e-03	2.00	1.00	20.00
191	13	0.50	0.01	6.90e-03	1.59e-03	2.00	1.00	20.00
192	13	0.87	0.02	9.58e-03	3.91e-03	2.00	1.00	20.00
193	13	1.48	0.03	0.02	6.14e-03	2.00	1.00	20.00
194	13	0.59	0.16	8.95e-03	0.07	2.00	1.00	270.00
195	13	0.57	0.16	6.29e-03	0.07	2.00	1.00	270.00
196	13	0.82	0.02	5.64e-03	5.41e-03	2.00	1.00	20.00
22	14	0.65	0.01	2.09e-03	5.43e-03	2.00	1.00	20.00
23	14	0.56	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	14	0.56	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	14	0.58	0.16	8.39e-03	0.07	2.00	1.00	270.00
29	14	0.43	8.52e-03	1.91e-03	3.31e-03	2.00	1.00	20.00
44	14	0.74	0.01	4.94e-03	4.93e-03	2.00	1.00	20.00
91	14	0.59	0.01	5.60e-03	3.05e-03	2.00	1.00	20.00
102	14	0.35	0.11	0.01	0.05	2.00	1.00	320.00
103	14	0.42	0.13	0.02	0.06	2.00	1.00	310.08
104	14	0.39	0.12	0.01	0.05	2.00	1.00	310.08
113	14	0.44	0.14	5.56e-03	0.07	2.00	1.00	329.31
153	14	0.41	0.13	9.83e-03	0.06	2.00	1.00	310.08
154	14	0.32	6.46e-03	7.32e-04	2.86e-03	2.00	1.00	20.00
156	14	0.35	0.11	9.44e-03	0.05	2.00	1.00	320.00
160	14	0.54	0.17	5.88e-03	0.08	2.00	1.00	319.20
161	14	0.58	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	14	0.59	0.18	4.20e-03	0.09	2.00	1.00	299.16

170	14	0.42	0.13	0.01	0.06	2.00	1.00	310.08
171	14	0.35	6.90e-03	3.20e-03	1.85e-03	2.00	1.00	20.00
188	14	0.38	7.58e-03	9.26e-04	3.33e-03	2.00	1.00	20.00
189	14	0.34	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	14	0.29	5.85e-03	1.58e-03	2.14e-03	2.00	1.00	20.00
191	14	0.50	0.01	6.90e-03	1.60e-03	2.00	1.00	20.00
192	14	0.87	0.02	9.58e-03	3.91e-03	2.00	1.00	20.00
193	14	1.47	0.03	0.02	6.03e-03	2.00	1.00	20.00
194	14	0.59	0.16	8.95e-03	0.07	2.00	1.00	270.00
195	14	0.57	0.15	6.29e-03	0.07	2.00	1.00	270.00
196	14	0.82	0.02	5.64e-03	5.37e-03	2.00	1.00	20.00
22	15	0.65	0.01	2.09e-03	5.46e-03	2.00	1.00	20.00
23	15	0.57	0.15	2.52e-03	0.08	2.00	1.00	270.00
24	15	0.57	0.15	3.96e-03	0.08	2.00	1.00	270.00
27	15	0.58	0.16	8.39e-03	0.07	2.00	1.00	270.00
29	15	0.43	8.51e-03	1.91e-03	3.30e-03	2.00	1.00	20.00
44	15	0.75	0.01	4.94e-03	5.00e-03	2.00	1.00	20.00
91	15	0.58	0.01	5.60e-03	2.98e-03	2.00	1.00	20.00
102	15	0.35	0.11	0.01	0.05	2.00	1.00	320.00
103	15	0.42	0.13	0.02	0.06	2.00	1.00	310.08
104	15	0.34	0.10	0.01	0.05	2.00	1.00	310.08
113	15	0.44	0.14	5.56e-03	0.07	2.00	1.00	329.31
153	15	0.41	0.13	9.83e-03	0.06	2.00	1.00	310.08
154	15	0.32	6.44e-03	7.32e-04	2.85e-03	2.00	1.00	20.00
156	15	0.35	0.11	9.44e-03	0.05	2.00	1.00	320.00
160	15	0.53	0.17	5.88e-03	0.08	2.00	1.00	319.20
161	15	0.58	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	15	0.59	0.18	4.20e-03	0.09	2.00	1.00	299.16
170	15	0.42	0.13	0.01	0.06	2.00	1.00	310.08
171	15	0.34	6.89e-03	3.20e-03	1.84e-03	2.00	1.00	20.00
188	15	0.39	7.75e-03	9.26e-04	3.41e-03	2.00	1.00	20.00
189	15	0.34	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	15	0.29	5.83e-03	1.58e-03	2.13e-03	2.00	1.00	20.00
191	15	0.50	0.01	6.90e-03	1.59e-03	2.00	1.00	20.00
192	15	0.88	0.02	9.58e-03	3.96e-03	2.00	1.00	20.00
193	15	1.48	0.03	0.02	6.16e-03	2.00	1.00	20.00
194	15	0.59	0.16	8.95e-03	0.08	2.00	1.00	270.00
195	15	0.58	0.16	6.29e-03	0.08	2.00	1.00	270.00
196	15	0.83	0.02	5.64e-03	5.46e-03	2.00	1.00	20.00
22	16	0.66	0.01	2.09e-03	5.52e-03	2.00	1.00	20.00
23	16	0.57	0.15	2.52e-03	0.08	2.00	1.00	270.00
24	16	0.57	0.15	3.96e-03	0.08	2.00	1.00	270.00
27	16	0.58	0.16	8.39e-03	0.07	2.00	1.00	270.00
29	16	0.43	8.54e-03	1.91e-03	3.32e-03	2.00	1.00	20.00
44	16	0.75	0.01	4.94e-03	5.00e-03	2.00	1.00	20.00
91	16	0.58	0.01	5.60e-03	2.98e-03	2.00	1.00	20.00
102	16	0.35	0.11	0.01	0.05	2.00	1.00	320.00
103	16	0.42	0.13	0.02	0.06	2.00	1.00	310.08
104	16	0.34	0.10	0.01	0.04	2.00	1.00	310.08
113	16	0.44	0.15	5.56e-03	0.07	2.00	1.00	329.31
153	16	0.41	0.13	9.83e-03	0.06	2.00	1.00	310.08
154	16	0.33	6.50e-03	7.32e-04	2.88e-03	2.00	1.00	20.00
156	16	0.35	0.11	9.44e-03	0.05	2.00	1.00	320.00
160	16	0.54	0.17	5.88e-03	0.08	2.00	1.00	319.20
161	16	0.59	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	16	0.59	0.18	4.20e-03	0.09	2.00	1.00	299.16
170	16	0.42	0.13	0.01	0.06	2.00	1.00	310.08
171	16	0.34	6.89e-03	3.20e-03	1.84e-03	2.00	1.00	20.00
188	16	0.38	7.60e-03	9.26e-04	3.34e-03	2.00	1.00	20.00
189	16	0.34	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	16	0.29	5.88e-03	1.58e-03	2.15e-03	2.00	1.00	20.00
191	16	0.51	0.01	6.90e-03	1.61e-03	2.00	1.00	20.00
192	16	0.88	0.02	9.58e-03	3.96e-03	2.00	1.00	20.00
193	16	1.47	0.03	0.02	6.06e-03	2.00	1.00	20.00
194	16	0.59	0.16	8.95e-03	0.08	2.00	1.00	270.00
195	16	0.58	0.16	6.29e-03	0.08	2.00	1.00	270.00
196	16	0.82	0.02	5.64e-03	5.42e-03	2.00	1.00	20.00
22	17	0.63	0.01	2.09e-03	5.30e-03	2.00	1.00	20.00
23	17	0.54	0.14	2.52e-03	0.07	2.00	1.00	270.00
24	17	0.56	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	17	0.63	0.17	8.39e-03	0.08	2.00	1.00	270.00
29	17	0.36	7.25e-03	1.91e-03	2.67e-03	2.00	1.00	20.00
44	17	0.80	0.02	4.94e-03	5.54e-03	2.00	1.00	20.00
91	17	0.64	0.01	5.60e-03	3.59e-03	2.00	1.00	20.00
102	17	0.49	0.16	0.01	0.07	2.00	1.00	320.00
103	17	0.53	0.16	0.02	0.07	2.00	1.00	310.08
104	17	0.52	0.16	0.01	0.07	2.00	1.00	310.08
113	17	0.49	0.16	5.56e-03	0.08	2.00	1.00	329.31

153	17	0.48	0.15	9.83e-03	0.07	2.00	1.00	310.08
154	17	0.18	3.66e-03	7.32e-04	1.47e-03	2.00	1.00	20.00
156	17	0.46	0.15	9.44e-03	0.07	2.00	1.00	320.00
160	17	0.50	0.16	5.88e-03	0.08	2.00	1.00	319.20
161	17	0.51	0.16	5.54e-03	0.08	2.00	1.00	309.28
162	17	0.53	0.16	4.20e-03	0.08	2.00	1.00	299.16
170	17	0.51	0.16	0.01	0.07	2.00	1.00	310.08
171	17	0.61	0.01	3.20e-03	4.47e-03	2.00	1.00	20.00
188	17	0.18	3.62e-03	9.26e-04	1.35e-03	2.00	1.00	20.00
189	17	0.47	0.15	5.49e-03	0.07	2.00	1.00	320.00
190	17	0.53	0.01	1.58e-03	4.48e-03	2.00	1.00	20.00
191	17	0.78	0.02	6.90e-03	4.34e-03	2.00	1.00	20.00
192	17	0.97	0.02	9.58e-03	4.94e-03	2.00	1.00	20.00
193	17	1.51	0.03	0.02	6.44e-03	2.00	1.00	20.00
194	17	0.58	0.16	8.95e-03	0.07	2.00	1.00	270.00
195	17	0.53	0.14	6.29e-03	0.07	2.00	1.00	270.00
196	17	0.86	0.02	5.64e-03	5.81e-03	2.00	1.00	20.00
22	18	0.64	0.01	2.09e-03	5.32e-03	2.00	1.00	20.00
23	18	0.54	0.15	2.52e-03	0.07	2.00	1.00	270.00
24	18	0.56	0.15	3.96e-03	0.07	2.00	1.00	270.00
27	18	0.62	0.17	8.39e-03	0.08	2.00	1.00	270.00
29	18	0.36	7.26e-03	1.91e-03	2.68e-03	2.00	1.00	20.00
44	18	0.80	0.02	4.94e-03	5.53e-03	2.00	1.00	20.00
91	18	0.64	0.01	5.60e-03	3.57e-03	2.00	1.00	20.00
102	18	0.49	0.16	0.01	0.07	2.00	1.00	320.00
103	18	0.53	0.16	0.02	0.07	2.00	1.00	310.08
104	18	0.51	0.16	0.01	0.07	2.00	1.00	310.08
113	18	0.49	0.16	5.56e-03	0.08	2.00	1.00	329.31
153	18	0.48	0.15	9.83e-03	0.07	2.00	1.00	310.08
154	18	0.18	3.66e-03	7.32e-04	1.47e-03	2.00	1.00	20.00
156	18	0.46	0.15	9.44e-03	0.07	2.00	1.00	320.00
160	18	0.50	0.16	5.88e-03	0.08	2.00	1.00	319.20
161	18	0.52	0.16	5.54e-03	0.08	2.00	1.00	309.28
162	18	0.53	0.16	4.20e-03	0.08	2.00	1.00	299.16
170	18	0.51	0.16	0.01	0.07	2.00	1.00	310.08
171	18	0.61	0.01	3.20e-03	4.48e-03	2.00	1.00	20.00
188	18	0.18	3.61e-03	9.26e-04	1.34e-03	2.00	1.00	20.00
189	18	0.47	0.15	5.49e-03	0.07	2.00	1.00	320.00
190	18	0.53	0.01	1.58e-03	4.50e-03	2.00	1.00	20.00
191	18	0.78	0.02	6.90e-03	4.35e-03	2.00	1.00	20.00
192	18	0.97	0.02	9.58e-03	4.95e-03	2.00	1.00	20.00
193	18	1.51	0.03	0.02	6.39e-03	2.00	1.00	20.00
194	18	0.58	0.16	8.95e-03	0.07	2.00	1.00	270.00
195	18	0.53	0.14	6.29e-03	0.07	2.00	1.00	270.00
196	18	0.86	0.02	5.64e-03	5.81e-03	2.00	1.00	20.00
22	19	0.70	0.01	2.09e-03	5.96e-03	2.00	1.00	20.00
23	19	0.61	0.17	2.52e-03	0.08	2.00	1.00	270.00
24	19	0.61	0.16	3.96e-03	0.08	2.00	1.00	270.00
27	19	0.53	0.14	8.39e-03	0.07	2.00	1.00	270.00
29	19	0.36	7.22e-03	1.91e-03	2.66e-03	2.00	1.00	20.00
44	19	0.80	0.02	4.94e-03	5.54e-03	2.00	1.00	20.00
91	19	0.60	0.01	5.60e-03	3.23e-03	2.00	1.00	20.00
102	19	0.53	0.17	0.01	0.08	2.00	1.00	320.00
103	19	0.48	0.15	0.02	0.07	2.00	1.00	310.08
104	19	0.46	0.14	0.01	0.06	2.00	1.00	310.08
113	19	0.55	0.18	5.56e-03	0.09	2.00	1.00	329.31
153	19	0.48	0.15	9.83e-03	0.07	2.00	1.00	310.08
154	19	0.19	3.85e-03	7.32e-04	1.56e-03	2.00	1.00	20.00
156	19	0.46	0.15	9.44e-03	0.07	2.00	1.00	320.00
160	19	0.57	0.18	5.88e-03	0.09	2.00	1.00	319.20
161	19	0.59	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	19	0.60	0.18	4.20e-03	0.09	2.00	1.00	299.16
170	19	0.47	0.15	0.01	0.07	2.00	1.00	310.08
171	19	0.57	0.01	3.20e-03	4.10e-03	2.00	1.00	20.00
188	19	0.18	3.58e-03	9.26e-04	1.33e-03	2.00	1.00	20.00
189	19	0.54	0.17	5.49e-03	0.08	2.00	1.00	320.00
190	19	0.58	0.01	1.58e-03	5.05e-03	2.00	1.00	20.00
191	19	0.82	0.02	6.90e-03	4.72e-03	2.00	1.00	20.00
192	19	1.00	0.02	9.58e-03	5.25e-03	2.00	1.00	20.00
193	19	1.43	0.03	0.02	5.59e-03	2.00	1.00	20.00
194	19	0.53	0.14	8.95e-03	0.07	2.00	1.00	270.00
195	19	0.53	0.14	6.29e-03	0.07	2.00	1.00	270.00
196	19	0.81	0.02	5.64e-03	5.28e-03	2.00	1.00	20.00
22	20	0.70	0.01	2.09e-03	5.98e-03	2.00	1.00	20.00
23	20	0.61	0.17	2.52e-03	0.08	2.00	1.00	270.00
24	20	0.61	0.16	3.96e-03	0.08	2.00	1.00	270.00
27	20	0.53	0.14	8.39e-03	0.07	2.00	1.00	270.00
29	20	0.36	7.23e-03	1.91e-03	2.66e-03	2.00	1.00	20.00

44	20	0.80	0.02	4.94e-03	5.54e-03	2.00	1.00	20.00
91	20	0.60	0.01	5.60e-03	3.21e-03	2.00	1.00	20.00
102	20	0.53	0.17	0.01	0.08	2.00	1.00	320.00
103	20	0.47	0.15	0.02	0.07	2.00	1.00	310.08
104	20	0.46	0.14	0.01	0.06	2.00	1.00	310.08
113	20	0.55	0.18	5.56e-03	0.09	2.00	1.00	329.31
153	20	0.48	0.15	9.83e-03	0.07	2.00	1.00	310.08
154	20	0.19	3.86e-03	7.32e-04	1.56e-03	2.00	1.00	20.00
156	20	0.46	0.15	9.44e-03	0.07	2.00	1.00	320.00
160	20	0.57	0.18	5.88e-03	0.09	2.00	1.00	319.20
161	20	0.59	0.18	5.54e-03	0.09	2.00	1.00	309.28
162	20	0.60	0.18	4.20e-03	0.09	2.00	1.00	299.16
170	20	0.47	0.15	0.01	0.07	2.00	1.00	310.08
171	20	0.57	0.01	3.20e-03	4.11e-03	2.00	1.00	20.00
188	20	0.18	3.60e-03	9.26e-04	1.34e-03	2.00	1.00	20.00
189	20	0.54	0.17	5.49e-03	0.08	2.00	1.00	320.00
190	20	0.59	0.01	1.58e-03	5.07e-03	2.00	1.00	20.00
191	20	0.82	0.02	6.90e-03	4.73e-03	2.00	1.00	20.00
192	20	1.01	0.02	9.58e-03	5.26e-03	2.00	1.00	20.00
193	20	1.42	0.03	0.02	5.53e-03	2.00	1.00	20.00
194	20	0.53	0.14	8.95e-03	0.07	2.00	1.00	270.00
195	20	0.53	0.14	6.29e-03	0.07	2.00	1.00	270.00
196	20	0.81	0.02	5.64e-03	5.28e-03	2.00	1.00	20.00
22	21	0.42	8.32e-03	2.09e-03	3.12e-03	2.00	1.00	20.00
23	21	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	21	0.33	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	21	0.35	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	21	0.30	5.98e-03	1.91e-03	2.04e-03	2.00	1.00	20.00
44	21	0.53	0.01	4.94e-03	2.87e-03	2.00	1.00	20.00
91	21	0.47	9.39e-03	5.60e-03	1.89e-03	2.00	1.00	20.00
102	21	0.23	0.07	0.01	0.03	2.00	1.00	320.00
103	21	0.28	0.09	0.02	0.04	2.00	1.00	310.08
104	21	0.26	0.08	0.01	0.03	2.00	1.00	310.08
113	21	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	21	0.27	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	21	0.21	4.27e-03	7.32e-04	1.77e-03	2.00	1.00	20.00
156	21	0.23	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	21	0.33	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	21	0.35	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	21	0.35	0.10	4.20e-03	0.05	2.00	1.00	299.16
170	21	0.28	0.09	0.01	0.04	2.00	1.00	310.08
171	21	0.27	5.48e-03	3.20e-03	1.14e-03	2.00	1.00	20.00
188	21	0.26	5.15e-03	9.26e-04	2.11e-03	2.00	1.00	20.00
189	21	0.22	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	21	0.21	4.21e-03	1.58e-03	1.32e-03	2.00	1.00	20.00
191	21	0.44	8.88e-03	6.90e-03	9.94e-04	2.00	1.00	20.00
192	21	0.71	0.01	9.58e-03	2.27e-03	2.00	1.00	20.00
193	21	1.23	0.02	0.02	3.60e-03	2.00	1.00	20.00
194	21	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	21	0.34	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	21	0.60	0.01	5.64e-03	3.16e-03	2.00	1.00	20.00
22	22	0.42	8.41e-03	2.09e-03	3.16e-03	2.00	1.00	20.00
23	22	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	22	0.33	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	22	0.35	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	22	0.30	6.01e-03	1.91e-03	2.05e-03	2.00	1.00	20.00
44	22	0.53	0.01	4.94e-03	2.86e-03	2.00	1.00	20.00
91	22	0.47	9.39e-03	5.60e-03	1.89e-03	2.00	1.00	20.00
102	22	0.23	0.07	0.01	0.03	2.00	1.00	320.00
103	22	0.28	0.09	0.02	0.04	2.00	1.00	310.08
104	22	0.26	0.08	0.01	0.03	2.00	1.00	310.08
113	22	0.28	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	22	0.27	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	22	0.22	4.33e-03	7.32e-04	1.80e-03	2.00	1.00	20.00
156	22	0.23	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	22	0.33	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	22	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	22	0.35	0.10	4.20e-03	0.05	2.00	1.00	299.16
170	22	0.28	0.09	0.01	0.04	2.00	1.00	310.08
171	22	0.27	5.49e-03	3.20e-03	1.15e-03	2.00	1.00	20.00
188	22	0.26	5.13e-03	9.26e-04	2.10e-03	2.00	1.00	20.00
189	22	0.22	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	22	0.21	4.25e-03	1.58e-03	1.34e-03	2.00	1.00	20.00
191	22	0.45	8.91e-03	6.90e-03	1.01e-03	2.00	1.00	20.00
192	22	0.71	0.01	9.58e-03	2.27e-03	2.00	1.00	20.00
193	22	1.22	0.02	0.02	3.49e-03	2.00	1.00	20.00
194	22	0.35	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	22	0.34	0.09	6.29e-03	0.04	2.00	1.00	270.00

196	22	0.59	0.01	5.64e-03	3.12e-03	2.00	1.00	20.00
22	23	0.42	8.43e-03	2.09e-03	3.17e-03	2.00	1.00	20.00
23	23	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	23	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	23	0.35	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	23	0.30	5.99e-03	1.91e-03	2.04e-03	2.00	1.00	20.00
44	23	0.54	0.01	4.94e-03	2.90e-03	2.00	1.00	20.00
91	23	0.47	9.30e-03	5.60e-03	1.85e-03	2.00	1.00	20.00
102	23	0.23	0.07	0.01	0.03	2.00	1.00	320.00
103	23	0.28	0.09	0.02	0.04	2.00	1.00	310.08
104	23	0.23	0.07	0.01	0.03	2.00	1.00	310.08
113	23	0.28	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	23	0.27	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	23	0.22	4.30e-03	7.32e-04	1.78e-03	2.00	1.00	20.00
156	23	0.23	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	23	0.33	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	23	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	23	0.35	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	23	0.28	0.09	0.01	0.04	2.00	1.00	310.08
171	23	0.27	5.48e-03	3.20e-03	1.14e-03	2.00	1.00	20.00
188	23	0.26	5.17e-03	9.26e-04	2.12e-03	2.00	1.00	20.00
189	23	0.22	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	23	0.21	4.22e-03	1.58e-03	1.32e-03	2.00	1.00	20.00
191	23	0.44	8.89e-03	6.90e-03	9.97e-04	2.00	1.00	20.00
192	23	0.71	0.01	9.58e-03	2.30e-03	2.00	1.00	20.00
193	23	1.23	0.02	0.02	3.61e-03	2.00	1.00	20.00
194	23	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	23	0.35	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	23	0.60	0.01	5.64e-03	3.19e-03	2.00	1.00	20.00
22	24	0.43	8.51e-03	2.09e-03	3.21e-03	2.00	1.00	20.00
23	24	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	24	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	24	0.35	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	24	0.30	6.02e-03	1.91e-03	2.06e-03	2.00	1.00	20.00
44	24	0.54	0.01	4.94e-03	2.90e-03	2.00	1.00	20.00
91	24	0.47	9.30e-03	5.60e-03	1.85e-03	2.00	1.00	20.00
102	24	0.23	0.07	0.01	0.03	2.00	1.00	320.00
103	24	0.28	0.09	0.02	0.04	2.00	1.00	310.08
104	24	0.23	0.07	0.01	0.03	2.00	1.00	310.08
113	24	0.28	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	24	0.27	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	24	0.22	4.35e-03	7.32e-04	1.81e-03	2.00	1.00	20.00
156	24	0.23	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	24	0.34	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	24	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	24	0.35	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	24	0.28	0.09	0.01	0.04	2.00	1.00	310.08
171	24	0.27	5.48e-03	3.20e-03	1.14e-03	2.00	1.00	20.00
188	24	0.26	5.15e-03	9.26e-04	2.11e-03	2.00	1.00	20.00
189	24	0.22	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	24	0.21	4.26e-03	1.58e-03	1.34e-03	2.00	1.00	20.00
191	24	0.45	8.91e-03	6.90e-03	1.01e-03	2.00	1.00	20.00
192	24	0.71	0.01	9.58e-03	2.30e-03	2.00	1.00	20.00
193	24	1.22	0.02	0.02	3.51e-03	2.00	1.00	20.00
194	24	0.35	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	24	0.35	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	24	0.60	0.01	5.64e-03	3.15e-03	2.00	1.00	20.00
22	25	0.42	8.48e-03	2.09e-03	3.19e-03	2.00	1.00	20.00
23	25	0.32	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	25	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	25	0.38	0.10	8.39e-03	0.05	2.00	1.00	270.00
29	25	0.25	5.04e-03	1.91e-03	1.57e-03	2.00	1.00	20.00
44	25	0.58	0.01	4.94e-03	3.28e-03	2.00	1.00	20.00
91	25	0.49	9.80e-03	5.60e-03	2.10e-03	2.00	1.00	20.00
102	25	0.31	0.10	0.01	0.04	2.00	1.00	320.00
103	25	0.33	0.10	0.02	0.04	2.00	1.00	310.08
104	25	0.32	0.10	0.01	0.04	2.00	1.00	310.08
113	25	0.30	0.10	5.56e-03	0.05	2.00	1.00	329.31
153	25	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	25	0.12	2.47e-03	7.32e-04	8.71e-04	2.00	1.00	20.00
156	25	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	25	0.31	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	25	0.32	0.10	5.54e-03	0.05	2.00	1.00	309.28
162	25	0.32	0.10	4.20e-03	0.05	2.00	1.00	299.16
170	25	0.31	0.10	0.01	0.04	2.00	1.00	310.08
171	25	0.42	8.42e-03	3.20e-03	2.61e-03	2.00	1.00	20.00
188	25	0.13	2.52e-03	9.26e-04	7.99e-04	2.00	1.00	20.00
189	25	0.29	0.09	5.49e-03	0.04	2.00	1.00	320.00

190	25	0.35	6.96e-03	1.58e-03	2.69e-03	2.00	1.00	20.00
191	25	0.60	0.01	6.90e-03	2.58e-03	2.00	1.00	20.00
192	25	0.77	0.02	9.58e-03	2.96e-03	2.00	1.00	20.00
193	25	1.24	0.02	0.02	3.76e-03	2.00	1.00	20.00
194	25	0.35	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	25	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	25	0.62	0.01	5.64e-03	3.41e-03	2.00	1.00	20.00
22	26	0.43	8.51e-03	2.09e-03	3.21e-03	2.00	1.00	20.00
23	26	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	26	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	26	0.37	0.10	8.39e-03	0.05	2.00	1.00	270.00
29	26	0.25	5.06e-03	1.91e-03	1.58e-03	2.00	1.00	20.00
44	26	0.58	0.01	4.94e-03	3.28e-03	2.00	1.00	20.00
91	26	0.49	9.75e-03	5.60e-03	2.08e-03	2.00	1.00	20.00
102	26	0.31	0.10	0.01	0.04	2.00	1.00	320.00
103	26	0.33	0.10	0.02	0.04	2.00	1.00	310.08
104	26	0.32	0.10	0.01	0.04	2.00	1.00	310.08
113	26	0.30	0.10	5.56e-03	0.05	2.00	1.00	329.31
153	26	0.30	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	26	0.12	2.47e-03	7.32e-04	8.69e-04	2.00	1.00	20.00
156	26	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	26	0.31	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	26	0.32	0.10	5.54e-03	0.05	2.00	1.00	309.28
162	26	0.32	0.10	4.20e-03	0.05	2.00	1.00	299.16
170	26	0.31	0.10	0.01	0.04	2.00	1.00	310.08
171	26	0.42	8.44e-03	3.20e-03	2.62e-03	2.00	1.00	20.00
188	26	0.13	2.51e-03	9.26e-04	7.90e-04	2.00	1.00	20.00
189	26	0.29	0.09	5.49e-03	0.04	2.00	1.00	320.00
190	26	0.35	7.00e-03	1.58e-03	2.71e-03	2.00	1.00	20.00
191	26	0.60	0.01	6.90e-03	2.59e-03	2.00	1.00	20.00
192	26	0.78	0.02	9.58e-03	2.97e-03	2.00	1.00	20.00
193	26	1.24	0.02	0.02	3.71e-03	2.00	1.00	20.00
194	26	0.35	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	26	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	26	0.62	0.01	5.64e-03	3.41e-03	2.00	1.00	20.00
22	27	0.46	9.24e-03	2.09e-03	3.57e-03	2.00	1.00	20.00
23	27	0.37	0.10	2.52e-03	0.05	2.00	1.00	270.00
24	27	0.36	0.10	3.96e-03	0.05	2.00	1.00	270.00
27	27	0.33	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	27	0.25	5.02e-03	1.91e-03	1.56e-03	2.00	1.00	20.00
44	27	0.58	0.01	4.94e-03	3.28e-03	2.00	1.00	20.00
91	27	0.47	9.40e-03	5.60e-03	1.90e-03	2.00	1.00	20.00
102	27	0.33	0.11	0.01	0.05	2.00	1.00	320.00
103	27	0.30	0.09	0.02	0.04	2.00	1.00	310.08
104	27	0.29	0.09	0.01	0.04	2.00	1.00	310.08
113	27	0.34	0.11	5.56e-03	0.05	2.00	1.00	329.31
153	27	0.30	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	27	0.13	2.59e-03	7.32e-04	9.28e-04	2.00	1.00	20.00
156	27	0.29	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	27	0.35	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	27	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	27	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	27	0.30	0.09	0.01	0.04	2.00	1.00	310.08
171	27	0.40	8.00e-03	3.20e-03	2.40e-03	2.00	1.00	20.00
188	27	0.13	2.51e-03	9.26e-04	7.92e-04	2.00	1.00	20.00
189	27	0.33	0.10	5.49e-03	0.05	2.00	1.00	320.00
190	27	0.38	7.61e-03	1.58e-03	3.02e-03	2.00	1.00	20.00
191	27	0.62	0.01	6.90e-03	2.79e-03	2.00	1.00	20.00
192	27	0.79	0.02	9.58e-03	3.14e-03	2.00	1.00	20.00
193	27	1.20	0.02	0.02	3.28e-03	2.00	1.00	20.00
194	27	0.32	0.09	8.95e-03	0.04	2.00	1.00	270.00
195	27	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	27	0.59	0.01	5.64e-03	3.11e-03	2.00	1.00	20.00
22	28	0.46	9.28e-03	2.09e-03	3.60e-03	2.00	1.00	20.00
23	28	0.37	0.10	2.52e-03	0.05	2.00	1.00	270.00
24	28	0.37	0.10	3.96e-03	0.05	2.00	1.00	270.00
27	28	0.32	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	28	0.25	5.03e-03	1.91e-03	1.56e-03	2.00	1.00	20.00
44	28	0.58	0.01	4.94e-03	3.28e-03	2.00	1.00	20.00
91	28	0.47	9.35e-03	5.60e-03	1.87e-03	2.00	1.00	20.00
102	28	0.33	0.11	0.01	0.05	2.00	1.00	320.00
103	28	0.30	0.09	0.02	0.04	2.00	1.00	310.08
104	28	0.29	0.09	0.01	0.04	2.00	1.00	310.08
113	28	0.34	0.11	5.56e-03	0.05	2.00	1.00	329.31
153	28	0.30	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	28	0.13	2.58e-03	7.32e-04	9.24e-04	2.00	1.00	20.00
156	28	0.29	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	28	0.35	0.11	5.88e-03	0.05	2.00	1.00	319.20

161	28	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	28	0.37	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	28	0.30	0.09	0.01	0.04	2.00	1.00	310.08
171	28	0.40	8.02e-03	3.20e-03	2.41e-03	2.00	1.00	20.00
188	28	0.12	2.49e-03	9.26e-04	7.84e-04	2.00	1.00	20.00
189	28	0.33	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	28	0.38	7.66e-03	1.58e-03	3.04e-03	2.00	1.00	20.00
191	28	0.63	0.01	6.90e-03	2.80e-03	2.00	1.00	20.00
192	28	0.79	0.02	9.58e-03	3.15e-03	2.00	1.00	20.00
193	28	1.19	0.02	0.02	3.22e-03	2.00	1.00	20.00
194	28	0.32	0.09	8.95e-03	0.04	2.00	1.00	270.00
195	28	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	28	0.59	0.01	5.64e-03	3.11e-03	2.00	1.00	20.00
22	29	0.43	8.51e-03	2.09e-03	3.21e-03	2.00	1.00	20.00
23	29	0.34	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	29	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	29	0.36	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	29	0.29	5.84e-03	1.91e-03	1.97e-03	2.00	1.00	20.00
44	29	0.54	0.01	4.94e-03	2.95e-03	2.00	1.00	20.00
91	29	0.46	9.26e-03	5.60e-03	1.83e-03	2.00	1.00	20.00
102	29	0.22	0.07	0.01	0.03	2.00	1.00	320.00
103	29	0.27	0.08	0.02	0.03	2.00	1.00	310.08
104	29	0.25	0.08	0.01	0.03	2.00	1.00	310.08
113	29	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	29	0.26	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	29	0.21	4.11e-03	7.32e-04	1.69e-03	2.00	1.00	20.00
156	29	0.22	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	29	0.32	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	29	0.35	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	29	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	29	0.27	0.08	0.01	0.04	2.00	1.00	310.08
171	29	0.27	5.41e-03	3.20e-03	1.11e-03	2.00	1.00	20.00
188	29	0.25	4.97e-03	9.26e-04	2.02e-03	2.00	1.00	20.00
189	29	0.21	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	29	0.21	4.10e-03	1.58e-03	1.26e-03	2.00	1.00	20.00
191	29	0.44	8.79e-03	6.90e-03	9.47e-04	2.00	1.00	20.00
192	29	0.71	0.01	9.58e-03	2.34e-03	2.00	1.00	20.00
193	29	1.24	0.02	0.02	3.69e-03	2.00	1.00	20.00
194	29	0.37	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	29	0.35	0.10	6.29e-03	0.04	2.00	1.00	270.00
196	29	0.61	0.01	5.64e-03	3.25e-03	2.00	1.00	20.00
22	30	0.43	8.59e-03	2.09e-03	3.25e-03	2.00	1.00	20.00
23	30	0.34	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	30	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	30	0.36	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	30	0.29	5.88e-03	1.91e-03	1.99e-03	2.00	1.00	20.00
44	30	0.54	0.01	4.94e-03	2.95e-03	2.00	1.00	20.00
91	30	0.46	9.26e-03	5.60e-03	1.83e-03	2.00	1.00	20.00
102	30	0.22	0.07	0.01	0.03	2.00	1.00	320.00
103	30	0.27	0.08	0.02	0.03	2.00	1.00	310.08
104	30	0.25	0.08	0.01	0.03	2.00	1.00	310.08
113	30	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	30	0.26	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	30	0.21	4.17e-03	7.32e-04	1.72e-03	2.00	1.00	20.00
156	30	0.22	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	30	0.33	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	30	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	30	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	30	0.27	0.08	0.01	0.04	2.00	1.00	310.08
171	30	0.27	5.42e-03	3.20e-03	1.11e-03	2.00	1.00	20.00
188	30	0.25	4.95e-03	9.26e-04	2.01e-03	2.00	1.00	20.00
189	30	0.21	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	30	0.21	4.14e-03	1.58e-03	1.28e-03	2.00	1.00	20.00
191	30	0.44	8.82e-03	6.90e-03	9.61e-04	2.00	1.00	20.00
192	30	0.71	0.01	9.58e-03	2.33e-03	2.00	1.00	20.00
193	30	1.23	0.02	0.02	3.59e-03	2.00	1.00	20.00
194	30	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	30	0.35	0.10	6.29e-03	0.04	2.00	1.00	270.00
196	30	0.60	0.01	5.64e-03	3.20e-03	2.00	1.00	20.00
22	31	0.43	8.62e-03	2.09e-03	3.27e-03	2.00	1.00	20.00
23	31	0.34	0.09	2.52e-03	0.05	2.00	1.00	270.00
24	31	0.35	0.09	3.96e-03	0.05	2.00	1.00	270.00
27	31	0.36	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	31	0.29	5.85e-03	1.91e-03	1.97e-03	2.00	1.00	20.00
44	31	0.55	0.01	4.94e-03	2.99e-03	2.00	1.00	20.00
91	31	0.46	9.17e-03	5.60e-03	1.79e-03	2.00	1.00	20.00
102	31	0.22	0.07	0.01	0.03	2.00	1.00	320.00
103	31	0.27	0.08	0.02	0.03	2.00	1.00	310.08

104	31	0.22	0.07	0.01	0.03	2.00	1.00	310.08
113	31	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	31	0.26	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	31	0.21	4.14e-03	7.32e-04	1.70e-03	2.00	1.00	20.00
156	31	0.22	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	31	0.33	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	31	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	31	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	31	0.27	0.08	0.01	0.04	2.00	1.00	310.08
171	31	0.27	5.40e-03	3.20e-03	1.10e-03	2.00	1.00	20.00
188	31	0.25	4.99e-03	9.26e-04	2.03e-03	2.00	1.00	20.00
189	31	0.21	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	31	0.21	4.11e-03	1.58e-03	1.27e-03	2.00	1.00	20.00
191	31	0.44	8.79e-03	6.90e-03	9.50e-04	2.00	1.00	20.00
192	31	0.72	0.01	9.58e-03	2.37e-03	2.00	1.00	20.00
193	31	1.24	0.02	0.02	3.71e-03	2.00	1.00	20.00
194	31	0.37	0.10	8.95e-03	0.05	2.00	1.00	270.00
195	31	0.36	0.10	6.29e-03	0.05	2.00	1.00	270.00
196	31	0.61	0.01	5.64e-03	3.27e-03	2.00	1.00	20.00
22	32	0.43	8.69e-03	2.09e-03	3.30e-03	2.00	1.00	20.00
23	32	0.34	0.09	2.52e-03	0.05	2.00	1.00	270.00
24	32	0.35	0.09	3.96e-03	0.05	2.00	1.00	270.00
27	32	0.36	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	32	0.29	5.88e-03	1.91e-03	1.99e-03	2.00	1.00	20.00
44	32	0.55	0.01	4.94e-03	2.99e-03	2.00	1.00	20.00
91	32	0.46	9.17e-03	5.60e-03	1.79e-03	2.00	1.00	20.00
102	32	0.22	0.07	0.01	0.03	2.00	1.00	320.00
103	32	0.27	0.08	0.02	0.03	2.00	1.00	310.08
104	32	0.22	0.07	0.01	0.03	2.00	1.00	310.08
113	32	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	32	0.26	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	32	0.21	4.19e-03	7.32e-04	1.73e-03	2.00	1.00	20.00
156	32	0.22	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	32	0.33	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	32	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	32	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	32	0.27	0.08	0.01	0.04	2.00	1.00	310.08
171	32	0.27	5.41e-03	3.20e-03	1.10e-03	2.00	1.00	20.00
188	32	0.25	4.96e-03	9.26e-04	2.02e-03	2.00	1.00	20.00
189	32	0.21	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	32	0.21	4.16e-03	1.58e-03	1.29e-03	2.00	1.00	20.00
191	32	0.44	8.82e-03	6.90e-03	9.63e-04	2.00	1.00	20.00
192	32	0.72	0.01	9.58e-03	2.37e-03	2.00	1.00	20.00
193	32	1.23	0.02	0.02	3.61e-03	2.00	1.00	20.00
194	32	0.37	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	32	0.36	0.10	6.29e-03	0.05	2.00	1.00	270.00
196	32	0.61	0.01	5.64e-03	3.23e-03	2.00	1.00	20.00
22	33	0.42	8.30e-03	2.09e-03	3.10e-03	2.00	1.00	20.00
23	33	0.32	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	33	0.33	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	33	0.38	0.10	8.39e-03	0.05	2.00	1.00	270.00
29	33	0.25	5.04e-03	1.91e-03	1.57e-03	2.00	1.00	20.00
44	33	0.57	0.01	4.94e-03	3.25e-03	2.00	1.00	20.00
91	33	0.49	9.82e-03	5.60e-03	2.11e-03	2.00	1.00	20.00
102	33	0.30	0.10	0.01	0.04	2.00	1.00	320.00
103	33	0.33	0.10	0.02	0.04	2.00	1.00	310.08
104	33	0.32	0.10	0.01	0.04	2.00	1.00	310.08
113	33	0.29	0.10	5.56e-03	0.05	2.00	1.00	329.31
153	33	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	33	0.12	2.45e-03	7.32e-04	8.61e-04	2.00	1.00	20.00
156	33	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	33	0.30	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	33	0.31	0.10	5.54e-03	0.05	2.00	1.00	309.28
162	33	0.31	0.09	4.20e-03	0.04	2.00	1.00	299.16
170	33	0.31	0.10	0.01	0.04	2.00	1.00	310.08
171	33	0.42	8.44e-03	3.20e-03	2.62e-03	2.00	1.00	20.00
188	33	0.13	2.52e-03	9.26e-04	7.95e-04	2.00	1.00	20.00
189	33	0.28	0.09	5.49e-03	0.04	2.00	1.00	320.00
190	33	0.34	6.83e-03	1.58e-03	2.62e-03	2.00	1.00	20.00
191	33	0.60	0.01	6.90e-03	2.54e-03	2.00	1.00	20.00
192	33	0.77	0.02	9.58e-03	2.89e-03	2.00	1.00	20.00
193	33	1.25	0.02	0.02	3.79e-03	2.00	1.00	20.00
194	33	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	33	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	33	0.62	0.01	5.64e-03	3.41e-03	2.00	1.00	20.00
22	34	0.42	8.34e-03	2.09e-03	3.12e-03	2.00	1.00	20.00
23	34	0.32	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	34	0.33	0.09	3.96e-03	0.04	2.00	1.00	270.00

27	34	0.37	0.10	8.39e-03	0.05	2.00	1.00	270.00
29	34	0.25	5.05e-03	1.91e-03	1.57e-03	2.00	1.00	20.00
44	34	0.57	0.01	4.94e-03	3.25e-03	2.00	1.00	20.00
91	34	0.49	9.78e-03	5.60e-03	2.09e-03	2.00	1.00	20.00
102	34	0.30	0.10	0.01	0.04	2.00	1.00	320.00
103	34	0.33	0.10	0.02	0.04	2.00	1.00	310.08
104	34	0.32	0.10	0.01	0.04	2.00	1.00	310.08
113	34	0.29	0.10	5.56e-03	0.05	2.00	1.00	329.31
153	34	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	34	0.12	2.45e-03	7.32e-04	8.60e-04	2.00	1.00	20.00
156	34	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	34	0.30	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	34	0.31	0.10	5.54e-03	0.05	2.00	1.00	309.28
162	34	0.32	0.09	4.20e-03	0.05	2.00	1.00	299.16
170	34	0.32	0.10	0.01	0.04	2.00	1.00	310.08
171	34	0.42	8.46e-03	3.20e-03	2.63e-03	2.00	1.00	20.00
188	34	0.12	2.50e-03	9.26e-04	7.87e-04	2.00	1.00	20.00
189	34	0.29	0.09	5.49e-03	0.04	2.00	1.00	320.00
190	34	0.34	6.87e-03	1.58e-03	2.64e-03	2.00	1.00	20.00
191	34	0.60	0.01	6.90e-03	2.55e-03	2.00	1.00	20.00
192	34	0.77	0.02	9.58e-03	2.90e-03	2.00	1.00	20.00
193	34	1.24	0.02	0.02	3.74e-03	2.00	1.00	20.00
194	34	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	34	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	34	0.62	0.01	5.64e-03	3.41e-03	2.00	1.00	20.00
22	35	0.45	9.07e-03	2.09e-03	3.49e-03	2.00	1.00	20.00
23	35	0.36	0.10	2.52e-03	0.05	2.00	1.00	270.00
24	35	0.36	0.10	3.96e-03	0.05	2.00	1.00	270.00
27	35	0.33	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	35	0.25	5.02e-03	1.91e-03	1.56e-03	2.00	1.00	20.00
44	35	0.57	0.01	4.94e-03	3.25e-03	2.00	1.00	20.00
91	35	0.47	9.40e-03	5.60e-03	1.90e-03	2.00	1.00	20.00
102	35	0.33	0.10	0.01	0.05	2.00	1.00	320.00
103	35	0.30	0.09	0.02	0.04	2.00	1.00	310.08
104	35	0.29	0.09	0.01	0.04	2.00	1.00	310.08
113	35	0.33	0.11	5.56e-03	0.05	2.00	1.00	329.31
153	35	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	35	0.13	2.57e-03	7.32e-04	9.20e-04	2.00	1.00	20.00
156	35	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	35	0.34	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	35	0.35	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	35	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	35	0.29	0.09	0.01	0.04	2.00	1.00	310.08
171	35	0.40	8.01e-03	3.20e-03	2.41e-03	2.00	1.00	20.00
188	35	0.13	2.51e-03	9.26e-04	7.90e-04	2.00	1.00	20.00
189	35	0.32	0.10	5.49e-03	0.05	2.00	1.00	320.00
190	35	0.37	7.49e-03	1.58e-03	2.96e-03	2.00	1.00	20.00
191	35	0.62	0.01	6.90e-03	2.77e-03	2.00	1.00	20.00
192	35	0.79	0.02	9.58e-03	3.08e-03	2.00	1.00	20.00
193	35	1.20	0.02	0.02	3.29e-03	2.00	1.00	20.00
194	35	0.32	0.09	8.95e-03	0.04	2.00	1.00	270.00
195	35	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	35	0.59	0.01	5.64e-03	3.10e-03	2.00	1.00	20.00
22	36	0.46	9.11e-03	2.09e-03	3.51e-03	2.00	1.00	20.00
23	36	0.36	0.10	2.52e-03	0.05	2.00	1.00	270.00
24	36	0.36	0.10	3.96e-03	0.05	2.00	1.00	270.00
27	36	0.32	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	36	0.25	5.03e-03	1.91e-03	1.56e-03	2.00	1.00	20.00
44	36	0.57	0.01	4.94e-03	3.25e-03	2.00	1.00	20.00
91	36	0.47	9.35e-03	5.60e-03	1.87e-03	2.00	1.00	20.00
102	36	0.33	0.10	0.01	0.05	2.00	1.00	320.00
103	36	0.30	0.09	0.02	0.04	2.00	1.00	310.08
104	36	0.29	0.09	0.01	0.04	2.00	1.00	310.08
113	36	0.33	0.11	5.56e-03	0.05	2.00	1.00	329.31
153	36	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	36	0.13	2.56e-03	7.32e-04	9.16e-04	2.00	1.00	20.00
156	36	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	36	0.34	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	36	0.35	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	36	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	36	0.29	0.09	0.01	0.04	2.00	1.00	310.08
171	36	0.40	8.03e-03	3.20e-03	2.41e-03	2.00	1.00	20.00
188	36	0.12	2.49e-03	9.26e-04	7.81e-04	2.00	1.00	20.00
189	36	0.32	0.10	5.49e-03	0.05	2.00	1.00	320.00
190	36	0.38	7.54e-03	1.58e-03	2.98e-03	2.00	1.00	20.00
191	36	0.62	0.01	6.90e-03	2.78e-03	2.00	1.00	20.00
192	36	0.79	0.02	9.58e-03	3.09e-03	2.00	1.00	20.00
193	36	1.19	0.02	0.02	3.23e-03	2.00	1.00	20.00

194	36	0.32	0.09	8.95e-03	0.04	2.00	1.00	270.00
195	36	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	36	0.59	0.01	5.64e-03	3.10e-03	2.00	1.00	20.00
22	37	0.42	8.32e-03	2.09e-03	3.12e-03	2.00	1.00	20.00
23	37	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	37	0.33	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	37	0.35	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	37	0.30	5.98e-03	1.91e-03	2.04e-03	2.00	1.00	20.00
44	37	0.53	0.01	4.94e-03	2.87e-03	2.00	1.00	20.00
91	37	0.47	9.39e-03	5.60e-03	1.89e-03	2.00	1.00	20.00
102	37	0.23	0.07	0.01	0.03	2.00	1.00	320.00
103	37	0.28	0.09	0.02	0.04	2.00	1.00	310.08
104	37	0.26	0.08	0.01	0.03	2.00	1.00	310.08
113	37	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	37	0.27	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	37	0.21	4.27e-03	7.32e-04	1.77e-03	2.00	1.00	20.00
156	37	0.23	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	37	0.33	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	37	0.35	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	37	0.35	0.10	4.20e-03	0.05	2.00	1.00	299.16
170	37	0.28	0.09	0.01	0.04	2.00	1.00	310.08
171	37	0.27	5.48e-03	3.20e-03	1.14e-03	2.00	1.00	20.00
188	37	0.26	5.15e-03	9.26e-04	2.11e-03	2.00	1.00	20.00
189	37	0.22	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	37	0.21	4.21e-03	1.58e-03	1.32e-03	2.00	1.00	20.00
191	37	0.44	8.88e-03	6.90e-03	9.94e-04	2.00	1.00	20.00
192	37	0.71	0.01	9.58e-03	2.27e-03	2.00	1.00	20.00
193	37	1.23	0.02	0.02	3.60e-03	2.00	1.00	20.00
194	37	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	37	0.34	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	37	0.60	0.01	5.64e-03	3.16e-03	2.00	1.00	20.00
22	38	0.42	8.41e-03	2.09e-03	3.16e-03	2.00	1.00	20.00
23	38	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	38	0.33	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	38	0.35	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	38	0.30	6.01e-03	1.91e-03	2.05e-03	2.00	1.00	20.00
44	38	0.53	0.01	4.94e-03	2.86e-03	2.00	1.00	20.00
91	38	0.47	9.39e-03	5.60e-03	1.89e-03	2.00	1.00	20.00
102	38	0.23	0.07	0.01	0.03	2.00	1.00	320.00
103	38	0.28	0.09	0.02	0.04	2.00	1.00	310.08
104	38	0.26	0.08	0.01	0.03	2.00	1.00	310.08
113	38	0.28	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	38	0.27	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	38	0.22	4.33e-03	7.32e-04	1.80e-03	2.00	1.00	20.00
156	38	0.23	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	38	0.33	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	38	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	38	0.35	0.10	4.20e-03	0.05	2.00	1.00	299.16
170	38	0.28	0.09	0.01	0.04	2.00	1.00	310.08
171	38	0.27	5.49e-03	3.20e-03	1.15e-03	2.00	1.00	20.00
188	38	0.26	5.13e-03	9.26e-04	2.10e-03	2.00	1.00	20.00
189	38	0.22	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	38	0.21	4.25e-03	1.58e-03	1.34e-03	2.00	1.00	20.00
191	38	0.45	8.91e-03	6.90e-03	1.01e-03	2.00	1.00	20.00
192	38	0.71	0.01	9.58e-03	2.27e-03	2.00	1.00	20.00
193	38	1.22	0.02	0.02	3.49e-03	2.00	1.00	20.00
194	38	0.35	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	38	0.34	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	38	0.59	0.01	5.64e-03	3.12e-03	2.00	1.00	20.00
22	39	0.42	8.43e-03	2.09e-03	3.17e-03	2.00	1.00	20.00
23	39	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	39	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	39	0.35	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	39	0.30	5.99e-03	1.91e-03	2.04e-03	2.00	1.00	20.00
44	39	0.54	0.01	4.94e-03	2.90e-03	2.00	1.00	20.00
91	39	0.47	9.30e-03	5.60e-03	1.85e-03	2.00	1.00	20.00
102	39	0.23	0.07	0.01	0.03	2.00	1.00	320.00
103	39	0.28	0.09	0.02	0.04	2.00	1.00	310.08
104	39	0.23	0.07	0.01	0.03	2.00	1.00	310.08
113	39	0.28	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	39	0.27	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	39	0.22	4.30e-03	7.32e-04	1.78e-03	2.00	1.00	20.00
156	39	0.23	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	39	0.33	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	39	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	39	0.35	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	39	0.28	0.09	0.01	0.04	2.00	1.00	310.08
171	39	0.27	5.48e-03	3.20e-03	1.14e-03	2.00	1.00	20.00

188	39	0.26	5.17e-03	9.26e-04	2.12e-03	2.00	1.00	20.00
189	39	0.22	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	39	0.21	4.22e-03	1.58e-03	1.32e-03	2.00	1.00	20.00
191	39	0.44	8.89e-03	6.90e-03	9.97e-04	2.00	1.00	20.00
192	39	0.71	0.01	9.58e-03	2.30e-03	2.00	1.00	20.00
193	39	1.23	0.02	0.02	3.61e-03	2.00	1.00	20.00
194	39	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	39	0.35	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	39	0.60	0.01	5.64e-03	3.19e-03	2.00	1.00	20.00
22	40	0.43	8.51e-03	2.09e-03	3.21e-03	2.00	1.00	20.00
23	40	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	40	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	40	0.35	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	40	0.30	6.02e-03	1.91e-03	2.06e-03	2.00	1.00	20.00
44	40	0.54	0.01	4.94e-03	2.90e-03	2.00	1.00	20.00
91	40	0.47	9.30e-03	5.60e-03	1.85e-03	2.00	1.00	20.00
102	40	0.23	0.07	0.01	0.03	2.00	1.00	320.00
103	40	0.28	0.09	0.02	0.04	2.00	1.00	310.08
104	40	0.23	0.07	0.01	0.03	2.00	1.00	310.08
113	40	0.28	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	40	0.27	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	40	0.22	4.35e-03	7.32e-04	1.81e-03	2.00	1.00	20.00
156	40	0.23	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	40	0.34	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	40	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	40	0.35	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	40	0.28	0.09	0.01	0.04	2.00	1.00	310.08
171	40	0.27	5.48e-03	3.20e-03	1.14e-03	2.00	1.00	20.00
188	40	0.26	5.15e-03	9.26e-04	2.11e-03	2.00	1.00	20.00
189	40	0.22	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	40	0.21	4.26e-03	1.58e-03	1.34e-03	2.00	1.00	20.00
191	40	0.45	8.91e-03	6.90e-03	1.01e-03	2.00	1.00	20.00
192	40	0.71	0.01	9.58e-03	2.30e-03	2.00	1.00	20.00
193	40	1.22	0.02	0.02	3.51e-03	2.00	1.00	20.00
194	40	0.35	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	40	0.35	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	40	0.60	0.01	5.64e-03	3.15e-03	2.00	1.00	20.00
22	41	0.42	8.48e-03	2.09e-03	3.19e-03	2.00	1.00	20.00
23	41	0.32	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	41	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	41	0.38	0.10	8.39e-03	0.05	2.00	1.00	270.00
29	41	0.25	5.04e-03	1.91e-03	1.57e-03	2.00	1.00	20.00
44	41	0.58	0.01	4.94e-03	3.28e-03	2.00	1.00	20.00
91	41	0.49	9.80e-03	5.60e-03	2.10e-03	2.00	1.00	20.00
102	41	0.31	0.10	0.01	0.04	2.00	1.00	320.00
103	41	0.33	0.10	0.02	0.04	2.00	1.00	310.08
104	41	0.32	0.10	0.01	0.04	2.00	1.00	310.08
113	41	0.30	0.10	5.56e-03	0.05	2.00	1.00	329.31
153	41	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	41	0.12	2.47e-03	7.32e-04	8.71e-04	2.00	1.00	20.00
156	41	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	41	0.31	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	41	0.32	0.10	5.54e-03	0.05	2.00	1.00	309.28
162	41	0.32	0.10	4.20e-03	0.05	2.00	1.00	299.16
170	41	0.31	0.10	0.01	0.04	2.00	1.00	310.08
171	41	0.42	8.42e-03	3.20e-03	2.61e-03	2.00	1.00	20.00
188	41	0.13	2.52e-03	9.26e-04	7.99e-04	2.00	1.00	20.00
189	41	0.29	0.09	5.49e-03	0.04	2.00	1.00	320.00
190	41	0.35	6.96e-03	1.58e-03	2.69e-03	2.00	1.00	20.00
191	41	0.60	0.01	6.90e-03	2.58e-03	2.00	1.00	20.00
192	41	0.77	0.02	9.58e-03	2.96e-03	2.00	1.00	20.00
193	41	1.24	0.02	0.02	3.76e-03	2.00	1.00	20.00
194	41	0.35	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	41	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	41	0.62	0.01	5.64e-03	3.41e-03	2.00	1.00	20.00
22	42	0.43	8.51e-03	2.09e-03	3.21e-03	2.00	1.00	20.00
23	42	0.33	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	42	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	42	0.37	0.10	8.39e-03	0.05	2.00	1.00	270.00
29	42	0.25	5.06e-03	1.91e-03	1.58e-03	2.00	1.00	20.00
44	42	0.58	0.01	4.94e-03	3.28e-03	2.00	1.00	20.00
91	42	0.49	9.75e-03	5.60e-03	2.08e-03	2.00	1.00	20.00
102	42	0.31	0.10	0.01	0.04	2.00	1.00	320.00
103	42	0.33	0.10	0.02	0.04	2.00	1.00	310.08
104	42	0.32	0.10	0.01	0.04	2.00	1.00	310.08
113	42	0.30	0.10	5.56e-03	0.05	2.00	1.00	329.31
153	42	0.30	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	42	0.12	2.47e-03	7.32e-04	8.69e-04	2.00	1.00	20.00

156	42	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	42	0.31	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	42	0.32	0.10	5.54e-03	0.05	2.00	1.00	309.28
162	42	0.32	0.10	4.20e-03	0.05	2.00	1.00	299.16
170	42	0.31	0.10	0.01	0.04	2.00	1.00	310.08
171	42	0.42	8.44e-03	3.20e-03	2.62e-03	2.00	1.00	20.00
188	42	0.13	2.51e-03	9.26e-04	7.90e-04	2.00	1.00	20.00
189	42	0.29	0.09	5.49e-03	0.04	2.00	1.00	320.00
190	42	0.35	7.00e-03	1.58e-03	2.71e-03	2.00	1.00	20.00
191	42	0.60	0.01	6.90e-03	2.59e-03	2.00	1.00	20.00
192	42	0.78	0.02	9.58e-03	2.97e-03	2.00	1.00	20.00
193	42	1.24	0.02	0.02	3.71e-03	2.00	1.00	20.00
194	42	0.35	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	42	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	42	0.62	0.01	5.64e-03	3.41e-03	2.00	1.00	20.00
22	43	0.46	9.24e-03	2.09e-03	3.57e-03	2.00	1.00	20.00
23	43	0.37	0.10	2.52e-03	0.05	2.00	1.00	270.00
24	43	0.36	0.10	3.96e-03	0.05	2.00	1.00	270.00
27	43	0.33	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	43	0.25	5.02e-03	1.91e-03	1.56e-03	2.00	1.00	20.00
44	43	0.58	0.01	4.94e-03	3.28e-03	2.00	1.00	20.00
91	43	0.47	9.40e-03	5.60e-03	1.90e-03	2.00	1.00	20.00
102	43	0.33	0.11	0.01	0.05	2.00	1.00	320.00
103	43	0.30	0.09	0.02	0.04	2.00	1.00	310.08
104	43	0.29	0.09	0.01	0.04	2.00	1.00	310.08
113	43	0.34	0.11	5.56e-03	0.05	2.00	1.00	329.31
153	43	0.30	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	43	0.13	2.59e-03	7.32e-04	9.28e-04	2.00	1.00	20.00
156	43	0.29	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	43	0.35	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	43	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	43	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	43	0.30	0.09	0.01	0.04	2.00	1.00	310.08
171	43	0.40	8.00e-03	3.20e-03	2.40e-03	2.00	1.00	20.00
188	43	0.13	2.51e-03	9.26e-04	7.92e-04	2.00	1.00	20.00
189	43	0.33	0.10	5.49e-03	0.05	2.00	1.00	320.00
190	43	0.38	7.61e-03	1.58e-03	3.02e-03	2.00	1.00	20.00
191	43	0.62	0.01	6.90e-03	2.79e-03	2.00	1.00	20.00
192	43	0.79	0.02	9.58e-03	3.14e-03	2.00	1.00	20.00
193	43	1.20	0.02	0.02	3.28e-03	2.00	1.00	20.00
194	43	0.32	0.09	8.95e-03	0.04	2.00	1.00	270.00
195	43	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	43	0.59	0.01	5.64e-03	3.11e-03	2.00	1.00	20.00
22	44	0.46	9.28e-03	2.09e-03	3.60e-03	2.00	1.00	20.00
23	44	0.37	0.10	2.52e-03	0.05	2.00	1.00	270.00
24	44	0.37	0.10	3.96e-03	0.05	2.00	1.00	270.00
27	44	0.32	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	44	0.25	5.03e-03	1.91e-03	1.56e-03	2.00	1.00	20.00
44	44	0.58	0.01	4.94e-03	3.28e-03	2.00	1.00	20.00
91	44	0.47	9.35e-03	5.60e-03	1.87e-03	2.00	1.00	20.00
102	44	0.33	0.11	0.01	0.05	2.00	1.00	320.00
103	44	0.30	0.09	0.02	0.04	2.00	1.00	310.08
104	44	0.29	0.09	0.01	0.04	2.00	1.00	310.08
113	44	0.34	0.11	5.56e-03	0.05	2.00	1.00	329.31
153	44	0.30	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	44	0.13	2.58e-03	7.32e-04	9.24e-04	2.00	1.00	20.00
156	44	0.29	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	44	0.35	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	44	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	44	0.37	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	44	0.30	0.09	0.01	0.04	2.00	1.00	310.08
171	44	0.40	8.02e-03	3.20e-03	2.41e-03	2.00	1.00	20.00
188	44	0.12	2.49e-03	9.26e-04	7.84e-04	2.00	1.00	20.00
189	44	0.33	0.11	5.49e-03	0.05	2.00	1.00	320.00
190	44	0.38	7.66e-03	1.58e-03	3.04e-03	2.00	1.00	20.00
191	44	0.63	0.01	6.90e-03	2.80e-03	2.00	1.00	20.00
192	44	0.79	0.02	9.58e-03	3.15e-03	2.00	1.00	20.00
193	44	1.19	0.02	0.02	3.22e-03	2.00	1.00	20.00
194	44	0.32	0.09	8.95e-03	0.04	2.00	1.00	270.00
195	44	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	44	0.59	0.01	5.64e-03	3.11e-03	2.00	1.00	20.00
22	45	0.43	8.51e-03	2.09e-03	3.21e-03	2.00	1.00	20.00
23	45	0.34	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	45	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	45	0.36	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	45	0.29	5.84e-03	1.91e-03	1.97e-03	2.00	1.00	20.00
44	45	0.54	0.01	4.94e-03	2.95e-03	2.00	1.00	20.00
91	45	0.46	9.26e-03	5.60e-03	1.83e-03	2.00	1.00	20.00

102	45	0.22	0.07	0.01	0.03	2.00	1.00	320.00
103	45	0.27	0.08	0.02	0.03	2.00	1.00	310.08
104	45	0.25	0.08	0.01	0.03	2.00	1.00	310.08
113	45	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	45	0.26	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	45	0.21	4.11e-03	7.32e-04	1.69e-03	2.00	1.00	20.00
156	45	0.22	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	45	0.32	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	45	0.35	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	45	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	45	0.27	0.08	0.01	0.04	2.00	1.00	310.08
171	45	0.27	5.41e-03	3.20e-03	1.11e-03	2.00	1.00	20.00
188	45	0.25	4.97e-03	9.26e-04	2.02e-03	2.00	1.00	20.00
189	45	0.21	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	45	0.21	4.10e-03	1.58e-03	1.26e-03	2.00	1.00	20.00
191	45	0.44	8.79e-03	6.90e-03	9.47e-04	2.00	1.00	20.00
192	45	0.71	0.01	9.58e-03	2.34e-03	2.00	1.00	20.00
193	45	1.24	0.02	0.02	3.69e-03	2.00	1.00	20.00
194	45	0.37	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	45	0.35	0.10	6.29e-03	0.04	2.00	1.00	270.00
196	45	0.61	0.01	5.64e-03	3.25e-03	2.00	1.00	20.00
22	46	0.43	8.59e-03	2.09e-03	3.25e-03	2.00	1.00	20.00
23	46	0.34	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	46	0.34	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	46	0.36	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	46	0.29	5.88e-03	1.91e-03	1.99e-03	2.00	1.00	20.00
44	46	0.54	0.01	4.94e-03	2.95e-03	2.00	1.00	20.00
91	46	0.46	9.26e-03	5.60e-03	1.83e-03	2.00	1.00	20.00
102	46	0.22	0.07	0.01	0.03	2.00	1.00	320.00
103	46	0.27	0.08	0.02	0.03	2.00	1.00	310.08
104	46	0.25	0.08	0.01	0.03	2.00	1.00	310.08
113	46	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	46	0.26	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	46	0.21	4.17e-03	7.32e-04	1.72e-03	2.00	1.00	20.00
156	46	0.22	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	46	0.33	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	46	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	46	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	46	0.27	0.08	0.01	0.04	2.00	1.00	310.08
171	46	0.27	5.42e-03	3.20e-03	1.11e-03	2.00	1.00	20.00
188	46	0.25	4.95e-03	9.26e-04	2.01e-03	2.00	1.00	20.00
189	46	0.21	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	46	0.21	4.14e-03	1.58e-03	1.28e-03	2.00	1.00	20.00
191	46	0.44	8.82e-03	6.90e-03	9.61e-04	2.00	1.00	20.00
192	46	0.71	0.01	9.58e-03	2.33e-03	2.00	1.00	20.00
193	46	1.23	0.02	0.02	3.59e-03	2.00	1.00	20.00
194	46	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	46	0.35	0.10	6.29e-03	0.04	2.00	1.00	270.00
196	46	0.60	0.01	5.64e-03	3.20e-03	2.00	1.00	20.00
22	47	0.43	8.62e-03	2.09e-03	3.27e-03	2.00	1.00	20.00
23	47	0.34	0.09	2.52e-03	0.05	2.00	1.00	270.00
24	47	0.35	0.09	3.96e-03	0.05	2.00	1.00	270.00
27	47	0.36	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	47	0.29	5.85e-03	1.91e-03	1.97e-03	2.00	1.00	20.00
44	47	0.55	0.01	4.94e-03	2.99e-03	2.00	1.00	20.00
91	47	0.46	9.17e-03	5.60e-03	1.79e-03	2.00	1.00	20.00
102	47	0.22	0.07	0.01	0.03	2.00	1.00	320.00
103	47	0.27	0.08	0.02	0.03	2.00	1.00	310.08
104	47	0.22	0.07	0.01	0.03	2.00	1.00	310.08
113	47	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	47	0.26	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	47	0.21	4.14e-03	7.32e-04	1.70e-03	2.00	1.00	20.00
156	47	0.22	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	47	0.33	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	47	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	47	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	47	0.27	0.08	0.01	0.04	2.00	1.00	310.08
171	47	0.27	5.40e-03	3.20e-03	1.10e-03	2.00	1.00	20.00
188	47	0.25	4.99e-03	9.26e-04	2.03e-03	2.00	1.00	20.00
189	47	0.21	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	47	0.21	4.11e-03	1.58e-03	1.27e-03	2.00	1.00	20.00
191	47	0.44	8.79e-03	6.90e-03	9.50e-04	2.00	1.00	20.00
192	47	0.72	0.01	9.58e-03	2.37e-03	2.00	1.00	20.00
193	47	1.24	0.02	0.02	3.71e-03	2.00	1.00	20.00
194	47	0.37	0.10	8.95e-03	0.05	2.00	1.00	270.00
195	47	0.36	0.10	6.29e-03	0.05	2.00	1.00	270.00
196	47	0.61	0.01	5.64e-03	3.27e-03	2.00	1.00	20.00
22	48	0.43	8.69e-03	2.09e-03	3.30e-03	2.00	1.00	20.00

23	48	0.34	0.09	2.52e-03	0.05	2.00	1.00	270.00
24	48	0.35	0.09	3.96e-03	0.05	2.00	1.00	270.00
27	48	0.36	0.10	8.39e-03	0.04	2.00	1.00	270.00
29	48	0.29	5.88e-03	1.91e-03	1.99e-03	2.00	1.00	20.00
44	48	0.55	0.01	4.94e-03	2.99e-03	2.00	1.00	20.00
91	48	0.46	9.17e-03	5.60e-03	1.79e-03	2.00	1.00	20.00
102	48	0.22	0.07	0.01	0.03	2.00	1.00	320.00
103	48	0.27	0.08	0.02	0.03	2.00	1.00	310.08
104	48	0.22	0.07	0.01	0.03	2.00	1.00	310.08
113	48	0.27	0.09	5.56e-03	0.04	2.00	1.00	329.31
153	48	0.26	0.08	9.83e-03	0.04	2.00	1.00	310.08
154	48	0.21	4.19e-03	7.32e-04	1.73e-03	2.00	1.00	20.00
156	48	0.22	0.07	9.44e-03	0.03	2.00	1.00	320.00
160	48	0.33	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	48	0.36	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	48	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	48	0.27	0.08	0.01	0.04	2.00	1.00	310.08
171	48	0.27	5.41e-03	3.20e-03	1.10e-03	2.00	1.00	20.00
188	48	0.25	4.96e-03	9.26e-03	2.02e-03	2.00	1.00	20.00
189	48	0.21	0.07	5.49e-03	0.03	2.00	1.00	320.00
190	48	0.21	4.16e-03	1.58e-03	1.29e-03	2.00	1.00	20.00
191	48	0.44	8.82e-03	6.90e-03	9.63e-04	2.00	1.00	20.00
192	48	0.72	0.01	9.58e-03	2.37e-03	2.00	1.00	20.00
193	48	1.23	0.02	0.02	3.61e-03	2.00	1.00	20.00
194	48	0.37	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	48	0.36	0.10	6.29e-03	0.05	2.00	1.00	270.00
196	48	0.61	0.01	5.64e-03	3.23e-03	2.00	1.00	20.00
22	49	0.42	8.30e-03	2.09e-03	3.10e-03	2.00	1.00	20.00
23	49	0.32	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	49	0.33	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	49	0.38	0.10	8.39e-03	0.05	2.00	1.00	270.00
29	49	0.25	5.04e-03	1.91e-03	1.57e-03	2.00	1.00	20.00
44	49	0.57	0.01	4.94e-03	3.25e-03	2.00	1.00	20.00
91	49	0.49	9.82e-03	5.60e-03	2.11e-03	2.00	1.00	20.00
102	49	0.30	0.10	0.01	0.04	2.00	1.00	320.00
103	49	0.33	0.10	0.02	0.04	2.00	1.00	310.08
104	49	0.32	0.10	0.01	0.04	2.00	1.00	310.08
113	49	0.29	0.10	5.56e-03	0.05	2.00	1.00	329.31
153	49	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	49	0.12	2.45e-03	7.32e-04	8.61e-04	2.00	1.00	20.00
156	49	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	49	0.30	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	49	0.31	0.10	5.54e-03	0.05	2.00	1.00	309.28
162	49	0.31	0.09	4.20e-03	0.04	2.00	1.00	299.16
170	49	0.31	0.10	0.01	0.04	2.00	1.00	310.08
171	49	0.42	8.44e-03	3.20e-03	2.62e-03	2.00	1.00	20.00
188	49	0.13	2.52e-03	9.26e-04	7.95e-04	2.00	1.00	20.00
189	49	0.28	0.09	5.49e-03	0.04	2.00	1.00	320.00
190	49	0.34	6.83e-03	1.58e-03	2.62e-03	2.00	1.00	20.00
191	49	0.60	0.01	6.90e-03	2.54e-03	2.00	1.00	20.00
192	49	0.77	0.02	9.58e-03	2.89e-03	2.00	1.00	20.00
193	49	1.25	0.02	0.02	3.79e-03	2.00	1.00	20.00
194	49	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	49	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	49	0.62	0.01	5.64e-03	3.41e-03	2.00	1.00	20.00
22	50	0.42	8.34e-03	2.09e-03	3.12e-03	2.00	1.00	20.00
23	50	0.32	0.09	2.52e-03	0.04	2.00	1.00	270.00
24	50	0.33	0.09	3.96e-03	0.04	2.00	1.00	270.00
27	50	0.37	0.10	8.39e-03	0.05	2.00	1.00	270.00
29	50	0.25	5.05e-03	1.91e-03	1.57e-03	2.00	1.00	20.00
44	50	0.57	0.01	4.94e-03	3.25e-03	2.00	1.00	20.00
91	50	0.49	9.78e-03	5.60e-03	2.09e-03	2.00	1.00	20.00
102	50	0.30	0.10	0.01	0.04	2.00	1.00	320.00
103	50	0.33	0.10	0.02	0.04	2.00	1.00	310.08
104	50	0.32	0.10	0.01	0.04	2.00	1.00	310.08
113	50	0.29	0.10	5.56e-03	0.05	2.00	1.00	329.31
153	50	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	50	0.12	2.45e-03	7.32e-04	8.60e-04	2.00	1.00	20.00
156	50	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	50	0.30	0.10	5.88e-03	0.05	2.00	1.00	319.20
161	50	0.31	0.10	5.54e-03	0.05	2.00	1.00	309.28
162	50	0.32	0.09	4.20e-03	0.05	2.00	1.00	299.16
170	50	0.32	0.10	0.01	0.04	2.00	1.00	310.08
171	50	0.42	8.46e-03	3.20e-03	2.63e-03	2.00	1.00	20.00
188	50	0.12	2.50e-03	9.26e-04	7.87e-04	2.00	1.00	20.00
189	50	0.29	0.09	5.49e-03	0.04	2.00	1.00	320.00
190	50	0.34	6.87e-03	1.58e-03	2.64e-03	2.00	1.00	20.00
191	50	0.60	0.01	6.90e-03	2.55e-03	2.00	1.00	20.00

192	50	0.77	0.02	9.58e-03	2.90e-03	2.00	1.00	20.00
193	50	1.24	0.02	0.02	3.74e-03	2.00	1.00	20.00
194	50	0.36	0.10	8.95e-03	0.04	2.00	1.00	270.00
195	50	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	50	0.62	0.01	5.64e-03	3.41e-03	2.00	1.00	20.00
22	51	0.45	9.07e-03	2.09e-03	3.49e-03	2.00	1.00	20.00
23	51	0.36	0.10	2.52e-03	0.05	2.00	1.00	270.00
24	51	0.36	0.10	3.96e-03	0.05	2.00	1.00	270.00
27	51	0.33	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	51	0.25	5.02e-03	1.91e-03	1.56e-03	2.00	1.00	20.00
44	51	0.57	0.01	4.94e-03	3.25e-03	2.00	1.00	20.00
91	51	0.47	9.40e-03	5.60e-03	1.90e-03	2.00	1.00	20.00
102	51	0.33	0.10	0.01	0.05	2.00	1.00	320.00
103	51	0.30	0.09	0.02	0.04	2.00	1.00	310.08
104	51	0.29	0.09	0.01	0.04	2.00	1.00	310.08
113	51	0.33	0.11	5.56e-03	0.05	2.00	1.00	329.31
153	51	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	51	0.13	2.57e-03	7.32e-04	9.20e-04	2.00	1.00	20.00
156	51	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	51	0.34	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	51	0.35	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	51	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	51	0.29	0.09	0.01	0.04	2.00	1.00	310.08
171	51	0.40	8.01e-03	3.20e-03	2.41e-03	2.00	1.00	20.00
188	51	0.13	2.51e-03	9.26e-04	7.90e-04	2.00	1.00	20.00
189	51	0.32	0.10	5.49e-03	0.05	2.00	1.00	320.00
190	51	0.37	7.49e-03	1.58e-03	2.96e-03	2.00	1.00	20.00
191	51	0.62	0.01	6.90e-03	2.77e-03	2.00	1.00	20.00
192	51	0.79	0.02	9.58e-03	3.08e-03	2.00	1.00	20.00
193	51	1.20	0.02	0.02	3.29e-03	2.00	1.00	20.00
194	51	0.32	0.09	8.95e-03	0.04	2.00	1.00	270.00
195	51	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	51	0.59	0.01	5.64e-03	3.10e-03	2.00	1.00	20.00
22	52	0.46	9.11e-03	2.09e-03	3.51e-03	2.00	1.00	20.00
23	52	0.36	0.10	2.52e-03	0.05	2.00	1.00	270.00
24	52	0.36	0.10	3.96e-03	0.05	2.00	1.00	270.00
27	52	0.32	0.09	8.39e-03	0.04	2.00	1.00	270.00
29	52	0.25	5.03e-03	1.91e-03	1.56e-03	2.00	1.00	20.00
44	52	0.57	0.01	4.94e-03	3.25e-03	2.00	1.00	20.00
91	52	0.47	9.35e-03	5.60e-03	1.87e-03	2.00	1.00	20.00
102	52	0.33	0.10	0.01	0.05	2.00	1.00	320.00
103	52	0.30	0.09	0.02	0.04	2.00	1.00	310.08
104	52	0.29	0.09	0.01	0.04	2.00	1.00	310.08
113	52	0.33	0.11	5.56e-03	0.05	2.00	1.00	329.31
153	52	0.29	0.09	9.83e-03	0.04	2.00	1.00	310.08
154	52	0.13	2.56e-03	7.32e-04	9.16e-04	2.00	1.00	20.00
156	52	0.28	0.09	9.44e-03	0.04	2.00	1.00	320.00
160	52	0.34	0.11	5.88e-03	0.05	2.00	1.00	319.20
161	52	0.35	0.11	5.54e-03	0.05	2.00	1.00	309.28
162	52	0.36	0.11	4.20e-03	0.05	2.00	1.00	299.16
170	52	0.29	0.09	0.01	0.04	2.00	1.00	310.08
171	52	0.40	8.03e-03	3.20e-03	2.41e-03	2.00	1.00	20.00
188	52	0.12	2.49e-03	9.26e-04	7.81e-04	2.00	1.00	20.00
189	52	0.32	0.10	5.49e-03	0.05	2.00	1.00	320.00
190	52	0.38	7.54e-03	1.58e-03	2.98e-03	2.00	1.00	20.00
191	52	0.62	0.01	6.90e-03	2.78e-03	2.00	1.00	20.00
192	52	0.79	0.02	9.58e-03	3.09e-03	2.00	1.00	20.00
193	52	1.19	0.02	0.02	3.23e-03	2.00	1.00	20.00
194	52	0.32	0.09	8.95e-03	0.04	2.00	1.00	270.00
195	52	0.32	0.09	6.29e-03	0.04	2.00	1.00	270.00
196	52	0.59	0.01	5.64e-03	3.10e-03	2.00	1.00	20.00

Pilas.

1000 etaT/h

1.51

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	5	0.0	0.0	0.0	0.0	0.0	0.0
2	1	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0
3	1	0.0	0.0	0.0	0.0	0.0	0.0
3	5	0.0	0.0	0.0	0.0	0.0	0.0
4	1	0.0	0.0	0.0	0.0	0.0	0.0
4	5	0.0	0.0	0.0	0.0	0.0	0.0
5	1	0.0	0.0	0.0	0.0	0.0	0.0
5	5	0.0	0.0	0.0	0.0	0.0	0.0
6	1	0.0	0.0	0.0	0.0	0.0	0.0
6	5	0.0	0.0	0.0	0.0	0.0	0.0
7	1	0.0	0.0	0.0	0.0	0.0	0.0
7	5	0.0	0.0	0.0	0.0	0.0	0.0
8	1	0.0	0.0	0.0	0.0	0.0	0.0
8	5	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	5	0.0	0.0	0.0	0.0	0.0	0.0
10	1	0.0	0.0	0.0	0.0	0.0	0.0
10	5	0.0	0.0	0.0	0.0	0.0	0.0
11	1	0.0	0.0	0.0	0.0	0.0	0.0
11	5	0.0	0.0	0.0	0.0	0.0	0.0
12	1	0.0	0.0	0.0	0.0	0.0	0.0
12	5	0.0	0.0	0.0	0.0	0.0	0.0
13	1	0.0	0.0	0.0	0.0	0.0	0.0
13	5	0.0	0.0	0.0	0.0	0.0	0.0
14	1	0.0	0.0	0.0	0.0	0.0	0.0
14	5	0.0	0.0	0.0	0.0	0.0	0.0
15	1	5.55e-04	-0.02	-6.77e-03	6.94e-04	-1.37e-04	-9.88e-06
15	10	-2.42e-03	0.07	-3.82e-03	-4.12e-05	-4.89e-05	2.88e-06
15	15	-0.08	-2.99e-03	-3.67e-03	2.44e-04	-3.12e-04	-3.47e-06
15	17	2.98e-03	-0.08	-3.52e-03	5.63e-04	-4.06e-05	-1.67e-05
16	1	1.25e-03	-0.01	-5.87e-03	6.19e-04	9.50e-05	-4.00e-05
16	11	-1.71e-03	-0.07	-3.06e-03	5.11e-04	5.09e-05	0.0
16	16	0.08	-5.97e-03	-3.30e-03	2.19e-04	3.11e-04	-2.01e-05
17	1	-9.20e-03	-7.83e-03	-0.01	7.32e-05	-3.69e-05	-2.60e-06
17	7	-0.09	-7.97e-03	-7.02e-03	4.23e-05	-4.19e-04	1.94e-05
17	11	-3.68e-03	-0.09	-9.04e-03	2.07e-05	-1.46e-05	1.82e-06
18	1	-6.06e-03	-6.88e-03	-2.78e-03	-1.68e-04	3.02e-05	-2.52e-05
18	7	-0.06	-8.07e-03	-2.30e-03	-6.89e-05	-8.62e-05	3.66e-05
18	11	1.49e-03	-0.09	-2.26e-03	1.56e-04	3.01e-05	1.78e-06
19	1	-6.88e-03	-7.24e-03	-5.65e-03	-1.20e-03	-1.44e-05	-1.16e-05
19	7	-0.06	-5.16e-03	-2.78e-03	-4.01e-04	-8.84e-05	1.22e-05
19	11	9.51e-04	-0.09	-2.81e-03	-1.85e-04	0.0	1.34e-05
20	1	-6.42e-03	-0.02	2.07e-03	-1.82e-04	-1.33e-05	-5.84e-06
20	2	-4.50e-03	-0.02	2.90e-03	-1.59e-04	-9.11e-06	-5.62e-06
20	7	-0.07	-7.13e-03	-1.98e-03	-5.82e-05	-1.81e-04	3.27e-05
20	11	-1.36e-03	-0.08	-3.63e-03	2.51e-05	5.93e-06	1.19e-05
20	17	-4.33e-03	-0.08	-3.74e-03	2.75e-05	0.0	5.27e-06
21	1	-6.71e-03	-0.02	-1.34e-03	5.65e-06	-4.20e-05	3.65e-06
21	3	-5.67e-03	-0.02	-1.82e-03	-8.04e-06	-3.78e-05	3.05e-06
21	7	-0.06	-7.93e-03	-1.38e-03	-1.90e-05	-1.69e-04	4.56e-05
21	11	4.75e-04	-0.08	-4.24e-04	5.04e-05	-1.32e-05	1.94e-05
21	12	-6.93e-03	0.06	-2.80e-03	-7.74e-05	-3.68e-05	-1.59e-05
22	1	-6.17e-03	-0.02	2.20e-03	0.0	-1.64e-05	-5.84e-06

22	2	-4.33e-03	-0.02	3.02e-03	-4.86e-06	-1.17e-05	-5.62e-06
22	7	-0.06	-8.07e-03	-1.95e-03	4.85e-06	-1.69e-04	3.27e-05
22	11	-1.52e-03	-0.08	-3.60e-03	-1.88e-05	0.0	1.19e-05
22	17	-4.35e-03	-0.08	-3.71e-03	-1.81e-05	-7.34e-06	5.27e-06
23	1	-0.01	-0.03	-4.82e-04	1.23e-04	-4.40e-05	-1.62e-05
23	3	-9.90e-03	-0.03	-5.67e-04	9.85e-05	-4.05e-05	-1.34e-05
23	5	-0.06	-0.01	-7.54e-04	-5.24e-06	-2.47e-04	1.32e-05
23	17	-0.01	-0.09	-1.39e-03	1.99e-04	2.63e-05	-2.33e-05
24	1	-6.27e-03	-7.80e-03	-0.02	6.84e-05	0.0	1.00e-05
24	7	-0.07	-8.51e-03	-0.01	3.55e-05	-2.15e-04	7.23e-05
24	11	-5.26e-04	-0.09	-8.10e-03	-3.54e-05	1.09e-05	1.42e-05
24	12	-5.48e-03	0.09	-0.02	1.11e-04	0.0	-6.05e-06
25	1	1.23e-03	-0.03	-0.04	1.06e-03	1.32e-04	-4.56e-05
25	11	-1.59e-03	-0.08	-0.02	5.86e-04	5.78e-05	-9.89e-06
25	16	0.08	-0.01	-0.01	3.71e-04	3.17e-04	-1.32e-05
26	1	1.01e-03	-0.02	-7.53e-03	1.65e-03	-1.58e-05	-9.42e-06
26	11	-2.01e-03	-0.09	-3.70e-03	8.08e-04	-1.81e-05	1.34e-05
26	12	2.67e-03	0.08	-3.88e-03	3.19e-04	-5.08e-06	-1.83e-05
26	16	0.08	-5.28e-03	-3.81e-03	5.54e-04	1.83e-04	3.88e-06
27	1	3.11e-03	-0.03	-6.07e-03	7.64e-04	9.58e-05	-4.05e-05
27	11	-7.39e-04	-0.08	-3.13e-03	5.36e-04	5.03e-05	-2.27e-06
27	16	0.08	-0.01	-3.38e-03	2.68e-04	3.12e-04	-1.83e-05
28	1	-2.49e-03	-0.03	-7.00e-03	8.48e-04	-1.77e-04	-1.07e-05
28	10	-3.60e-03	0.07	-3.91e-03	3.45e-05	-6.98e-05	1.15e-06
28	15	-0.08	-8.14e-03	-3.75e-03	2.89e-04	-3.26e-04	-7.00e-06
28	17	2.17e-03	-0.09	-3.59e-03	5.86e-04	-4.59e-05	-1.62e-05
29	1	-0.02	-0.05	-7.03e-03	1.62e-03	-9.46e-04	5.30e-05
29	13	-0.09	-0.01	-3.93e-03	7.87e-04	-8.43e-04	1.62e-05
29	16	0.07	-0.03	-4.37e-03	8.87e-04	-2.48e-04	4.98e-05
29	17	-8.40e-03	-0.11	-4.18e-03	1.14e-03	-5.21e-04	3.26e-05
30	1	1.29e-03	-4.96e-03	-2.68e-03	1.37e-04	1.30e-04	2.71e-06
30	11	-1.60e-03	-0.08	-1.32e-03	3.79e-04	8.30e-05	-3.40e-06
30	12	2.76e-03	0.08	-2.35e-03	-2.61e-04	9.59e-05	-7.63e-06
30	16	0.08	4.11e-03	-1.50e-03	3.70e-05	3.57e-04	0.0
31	1	1.30e-03	5.10e-03	-7.22e-03	1.22e-03	-1.58e-05	-8.84e-06
31	12	2.74e-03	0.08	-3.77e-03	1.27e-04	-5.85e-06	-2.11e-05
31	16	0.08	4.09e-03	-3.71e-03	4.07e-04	1.79e-04	-3.73e-06
32	1	-7.19e-03	-7.33e-03	-5.22e-03	4.05e-05	-2.48e-05	7.12e-06
32	7	-0.08	-8.17e-03	-3.13e-03	2.54e-05	-3.14e-04	6.22e-05
32	11	-1.93e-03	-0.09	-2.93e-03	8.41e-05	-4.13e-06	8.39e-06
32	12	-4.82e-03	0.09	-3.35e-03	-4.33e-05	-1.62e-05	-3.20e-06
33	1	0.0	0.0	0.0	0.0	0.0	0.0
33	5	0.0	0.0	0.0	0.0	0.0	0.0
34	1	-8.41e-05	-0.02	-6.71e-03	1.24e-03	-7.80e-04	4.14e-05
34	3	-2.25e-04	-0.02	-6.22e-03	1.09e-03	-7.22e-04	3.97e-05
34	13	-0.07	-3.47e-04	-3.76e-03	5.92e-04	-7.56e-04	1.44e-05
34	16	0.07	-0.02	-4.20e-03	6.76e-04	-1.58e-04	3.77e-05
34	17	1.01e-03	-0.09	-4.01e-03	9.65e-04	-4.45e-04	2.40e-05
35	1	-6.65e-03	-9.99e-03	-2.69e-03	-1.51e-04	3.28e-05	-3.57e-05
35	7	-0.06	-9.28e-03	-2.25e-03	-5.52e-05	-7.65e-05	2.11e-05
35	11	8.91e-04	-0.09	-2.18e-03	1.99e-04	3.17e-05	-2.73e-06
36	1	-6.59e-03	-0.03	-5.42e-03	-8.82e-04	-1.40e-05	-1.41e-05
36	7	-0.06	-0.01	-2.70e-03	-2.94e-04	-8.71e-05	3.91e-06
36	11	9.42e-04	-0.09	-2.72e-03	-5.13e-05	0.0	1.40e-05
37	1	-6.59e-03	-0.02	-1.32e-03	-1.86e-06	-4.61e-05	6.59e-06
37	3	-5.57e-03	-0.02	-1.48e-03	-1.11e-05	-4.19e-05	5.00e-06
37	7	-0.06	-7.92e-03	-8.24e-04	-1.77e-05	-1.68e-04	4.06e-05
37	11	9.70e-04	-0.08	-2.11e-03	1.10e-04	-1.64e-05	2.20e-05
38	1	-5.49e-03	-0.02	-5.40e-03	-2.48e-04	0.0	-7.70e-06
38	7	-0.06	-8.26e-03	-3.16e-03	-7.12e-05	-1.61e-04	1.44e-05
38	11	-2.48e-03	-0.08	-1.90e-03	6.08e-05	4.22e-06	5.55e-06
38	12	-3.27e-03	0.06	-3.31e-03	-2.10e-04	2.09e-06	-1.28e-05
39	1	-6.21e-03	-0.03	-4.25e-03	-4.06e-04	9.02e-05	-1.44e-05
39	7	-0.06	-0.01	-2.13e-03	-1.18e-04	-5.68e-05	4.81e-06
39	17	-5.33e-03	-0.08	-2.00e-03	8.99e-05	-1.51e-06	-2.04e-05
39	18	-1.16e-03	0.06	-2.31e-03	-3.64e-04	6.31e-05	2.33e-06
40	1	-7.16e-03	-0.03	-6.08e-03	-3.91e-04	1.72e-04	-1.06e-05
40	5	-0.06	-0.01	-2.97e-03	-2.33e-04	-7.10e-05	8.90e-06
40	6	0.06	-0.02	-4.45e-03	-1.89e-04	2.37e-04	-2.42e-05
40	17	-6.98e-03	-0.09	-3.20e-03	-3.71e-05	9.04e-05	-1.89e-05
41	1	-2.91e-03	-0.02	-6.30e-03	-6.05e-04	2.69e-04	-1.11e-05
41	3	-2.98e-03	-0.02	-5.91e-03	-5.43e-04	2.35e-04	-1.19e-05
41	5	-0.07	-5.79e-03	-3.09e-03	-3.52e-04	-1.79e-05	1.21e-05
41	6	0.06	-0.01	-4.57e-03	-3.03e-04	2.89e-04	-2.78e-05
41	17	-4.76e-03	-0.09	-3.33e-03	-1.61e-04	1.47e-04	-2.01e-05
42	1	-9.21e-03	-7.59e-03	-6.90e-03	-8.02e-05	-3.82e-05	5.92e-06
42	7	-0.09	-8.00e-03	-4.01e-03	-4.57e-05	-4.03e-04	4.45e-05
42	11	-3.37e-03	-0.09	-2.21e-03	-2.00e-05	-1.37e-05	3.96e-06

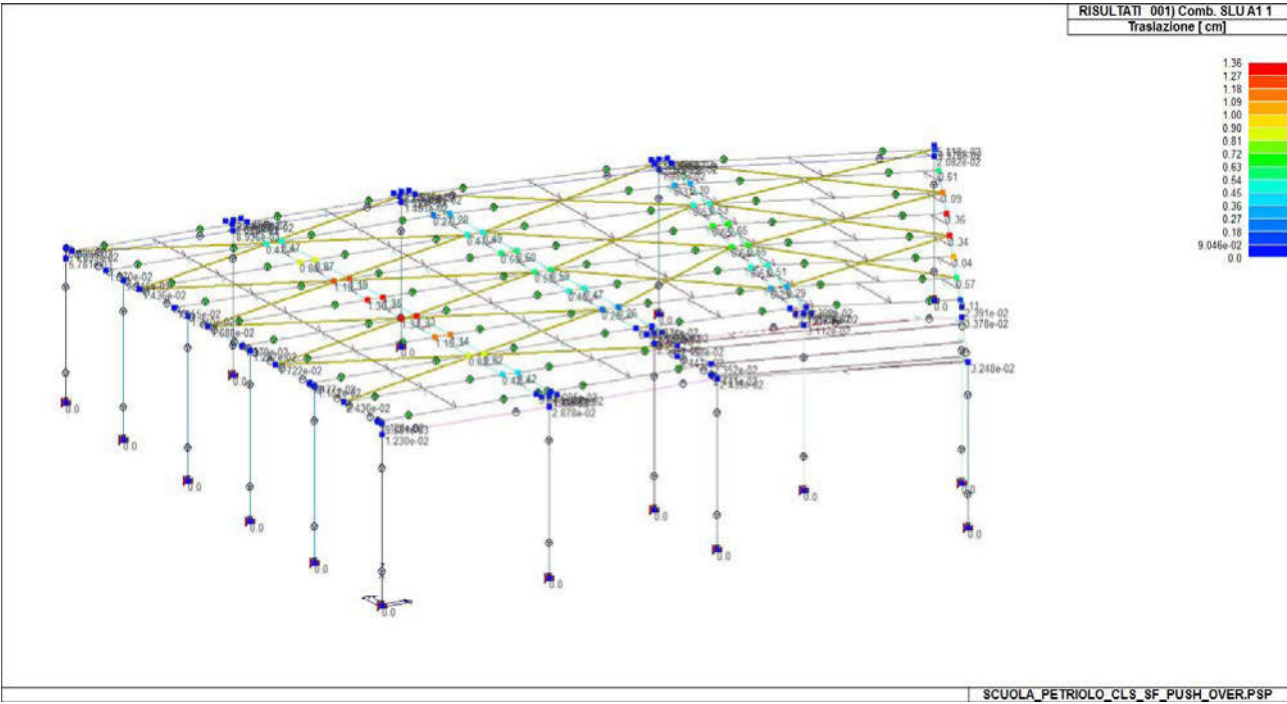
42	12	-5.02e-03	0.09	-6.06e-03	-7.49e-05	-2.04e-05	0.0
43	1	-5.51e-03	-0.02	-5.58e-03	-4.05e-04	-1.07e-06	-3.74e-06
43	7	-0.07	-6.40e-03	-3.23e-03	-1.27e-04	-1.64e-04	2.33e-05
43	11	-2.37e-03	-0.08	-1.97e-03	-1.00e-05	4.50e-06	4.90e-06
43	12	-3.26e-03	0.07	-3.37e-03	-2.50e-04	1.56e-06	-9.28e-06
44	1	-6.89e-03	-7.70e-03	-5.83e-03	-1.47e-03	-7.40e-06	-1.69e-05
44	7	-0.06	-5.01e-03	-1.51e-03	-4.94e-04	-8.59e-05	1.37e-05
44	8	0.05	-1.15e-03	-3.97e-03	-5.06e-04	7.62e-05	-2.68e-05
44	11	9.52e-04	-0.09	-2.97e-03	-3.03e-04	2.73e-06	1.03e-05
45	1	1.01e-03	-0.02	-7.69e-03	1.88e-03	-8.91e-06	-3.08e-06
45	11	-2.01e-03	-0.09	-3.55e-03	8.62e-04	-1.58e-05	1.48e-05
45	16	0.08	-5.09e-03	-6.88e-03	6.32e-04	1.85e-04	8.45e-06
46	1	-6.88e-03	-7.38e-03	-6.30e-03	-1.47e-03	-2.15e-05	-4.58e-06
46	7	-0.06	-5.51e-03	-4.34e-03	-4.96e-04	-9.08e-05	1.79e-05
46	11	9.53e-04	-0.09	-2.96e-03	-3.03e-04	-2.48e-06	1.58e-05
47	1	1.01e-03	-0.02	-8.20e-03	1.88e-03	-2.30e-05	-1.56e-05
47	11	-2.01e-03	-0.09	-4.13e-03	8.62e-04	-2.04e-05	1.09e-05
47	15	-0.08	-0.01	-7.20e-03	6.49e-04	-2.08e-04	-1.30e-05
47	16	0.08	-5.25e-03	-1.04e-03	6.33e-04	1.80e-04	4.11e-06
48	1	-5.51e-03	-0.02	-5.95e-03	-6.04e-04	-7.20e-06	2.83e-06
48	7	-0.07	-6.93e-03	-5.97e-03	-1.98e-04	-1.66e-04	2.96e-05
48	11	-2.37e-03	-0.08	-2.04e-03	-1.01e-04	2.09e-06	7.80e-06
49	1	3.10e-03	-0.03	-4.88e-03	9.22e-04	9.02e-05	-4.58e-05
49	11	-7.45e-04	-0.08	-2.44e-03	5.63e-04	4.84e-05	-4.72e-06
49	15	-0.08	-9.46e-03	-6.18e-03	3.26e-04	-1.85e-04	-2.23e-05
49	16	0.08	-0.01	1.50e-03	3.23e-04	3.10e-04	-1.90e-05
50	1	-5.53e-03	-0.02	-5.18e-03	-6.03e-04	1.25e-05	-7.69e-06
50	7	-0.07	-6.02e-03	-5.28e-04	-1.97e-04	-1.59e-04	2.66e-05
50	8	0.06	-8.33e-03	-4.68e-03	-2.02e-04	1.74e-04	-3.40e-05
50	11	-2.38e-03	-0.08	-2.12e-03	-1.00e-04	1.03e-05	0.0
51	1	3.06e-03	-0.03	-9.34e-03	9.30e-04	9.60e-05	-3.65e-05
51	11	-7.43e-04	-0.08	-4.96e-03	5.65e-04	5.12e-05	-2.37e-06
51	16	0.08	-0.01	-8.98e-03	3.24e-04	3.12e-04	-1.58e-05
52	1	-4.17e-03	-0.02	-4.70e-03	-7.53e-04	1.58e-04	-8.28e-06
52	5	-0.07	-8.79e-03	-3.63e-03	-2.44e-04	-3.35e-05	2.70e-05
52	7	-0.07	-8.75e-03	-3.63e-03	-2.45e-04	-3.37e-05	2.59e-05
52	17	-5.19e-03	-0.09	-1.93e-03	-7.83e-05	3.23e-05	-1.87e-05
53	1	-2.44e-03	-0.03	-8.98e-03	1.02e-03	-2.15e-04	-1.63e-05
53	15	-0.08	-7.93e-03	-8.67e-03	3.40e-04	-3.38e-04	-1.08e-05
53	17	2.21e-03	-0.09	-3.51e-03	6.12e-04	-5.27e-05	-1.75e-05
54	1	-4.26e-03	-0.02	-4.83e-03	-7.50e-04	1.69e-04	-1.91e-05
54	7	-0.07	-7.98e-03	-1.01e-03	-2.44e-04	-2.98e-05	2.17e-05
54	8	0.06	-0.01	-3.73e-03	-2.67e-04	1.46e-04	-4.12e-05
54	17	-5.33e-03	-0.09	-2.49e-03	-7.72e-05	3.67e-05	-2.52e-05
55	1	-2.48e-03	-0.03	-9.08e-03	1.02e-03	-2.11e-04	-5.11e-06
55	15	-0.08	-8.18e-03	-3.85e-04	3.41e-04	-3.36e-04	-6.95e-06
55	16	0.08	-0.02	-8.78e-03	3.90e-04	1.96e-04	-3.21e-06
55	17	2.12e-03	-0.09	-5.99e-03	6.12e-04	-5.01e-05	-1.39e-05
56	1	-5.73e-03	-7.06e-03	-6.68e-03	-1.96e-04	2.66e-05	-1.58e-05
56	7	-0.06	-8.15e-03	-4.10e-03	-9.35e-05	-1.02e-04	4.93e-05
56	11	1.37e-03	-0.09	-4.27e-04	6.69e-05	2.79e-05	5.69e-06
56	12	-6.62e-03	0.09	-7.41e-03	-2.76e-04	1.67e-05	-1.35e-05
57	1	-6.74e-03	-9.76e-03	-0.06	-1.71e-03	-2.86e-05	-4.81e-06
57	7	-0.06	-6.35e-03	-0.02	-5.79e-04	-9.63e-05	4.73e-05
57	11	7.82e-04	-0.09	-0.02	-4.08e-04	-3.58e-06	1.20e-05
57	12	-7.24e-03	0.08	-0.02	-7.57e-04	-1.79e-05	-1.64e-05
58	1	-7.60e-03	-0.02	-1.40e-03	-7.55e-05	-4.36e-05	3.64e-06
58	3	-6.44e-03	-0.02	-1.87e-03	-5.87e-05	-3.83e-05	3.04e-06
58	7	-0.06	-7.19e-03	-1.40e-03	-4.13e-05	-1.73e-04	4.56e-05
58	11	3.53e-04	-0.08	-4.43e-04	4.89e-05	-7.97e-06	1.94e-05
58	12	-7.78e-03	0.06	-2.82e-03	-1.10e-04	-4.08e-05	-1.59e-05
59	1	-6.82e-03	-0.01	-0.06	-1.72e-03	-1.69e-05	-9.28e-06
59	7	-0.06	-5.79e-03	-0.02	-5.79e-04	-9.22e-05	4.66e-05
59	11	7.55e-04	-0.09	-0.02	-4.12e-04	0.0	9.82e-06
59	12	-7.30e-03	0.08	-0.03	-7.58e-04	-1.41e-05	-1.70e-05
60	1	-3.93e-03	-7.71e-03	-4.41e-03	7.77e-06	-1.96e-06	-2.61e-05
60	11	-2.71e-03	-0.09	-3.09e-03	7.24e-05	0.0	-5.73e-06
60	15	-0.09	-8.89e-03	-2.69e-03	8.50e-06	-4.00e-04	-9.80e-06
61	1	3.75e-03	-7.71e-03	-2.75e-03	1.42e-04	1.23e-04	-1.07e-05
61	11	-1.90e-05	-0.09	-1.33e-03	3.46e-04	7.87e-05	-8.91e-06
61	12	4.59e-03	0.09	-2.43e-03	-2.16e-04	9.15e-05	-1.44e-05
61	16	0.08	3.32e-03	-1.55e-03	4.57e-05	3.60e-04	0.0
62	1	-8.70e-03	-7.63e-03	-4.46e-03	5.11e-06	-3.61e-05	-6.61e-06
62	7	-0.09	-7.73e-03	-2.71e-03	7.18e-06	-4.27e-04	1.31e-05
62	11	-3.74e-03	-0.09	-2.67e-03	1.02e-04	-1.51e-05	0.0
62	12	-3.96e-03	0.09	-2.77e-03	-9.99e-05	-1.57e-05	-6.13e-06
63	1	-9.00e-03	-7.51e-03	-4.56e-03	4.75e-06	-3.86e-05	7.80e-06
63	7	-0.09	-8.00e-03	-2.78e-03	8.05e-06	-3.99e-04	5.09e-05

63	11	-3.23e-03	-0.09	-2.87e-03	9.69e-05	-1.35e-05	4.44e-06
64	1	-2.39e-03	-0.03	-0.05	1.16e-03	-3.05e-04	-4.67e-06
64	15	-0.08	-7.72e-03	-0.01	3.82e-04	-1.59e-04	-1.59e-05
64	17	2.29e-03	-0.09	-0.03	6.31e-04	-6.35e-05	-1.17e-05
65	1	-0.01	-0.05	-0.08	1.98e-03	-1.06e-03	1.04e-04
65	13	-0.09	-0.02	-0.05	9.75e-04	-9.00e-04	2.47e-05
65	17	-4.98e-03	-0.11	-0.05	1.31e-03	-5.76e-04	6.88e-05
66	1	3.28e-03	-7.83e-03	-6.88e-03	1.42e-04	1.09e-04	-2.46e-05
66	11	-3.15e-04	-0.09	-8.97e-03	2.36e-04	6.98e-05	-1.37e-05
66	16	0.08	3.28e-03	-3.24e-03	6.28e-05	3.65e-04	-1.27e-06
67	1	-2.39e-03	-0.04	-0.47	2.65e-03	-9.01e-05	-1.78e-05
67	11	-2.50e-03	-0.10	-0.19	9.89e-04	-3.35e-05	0.0
67	15	-0.09	-0.02	-0.17	9.01e-04	-2.15e-04	-1.43e-05
68	1	-5.48e-03	-0.05	-0.88	2.41e-03	-1.41e-04	-1.34e-05
68	11	-3.20e-03	-0.11	-0.33	8.25e-04	-4.28e-05	1.69e-06
68	15	-0.09	-0.02	-0.30	8.17e-04	-2.20e-04	-5.28e-06
69	1	-8.19e-03	-7.71e-03	-0.01	4.11e-05	-3.31e-05	8.66e-06
69	7	-0.08	-8.27e-03	-7.86e-03	2.38e-05	-3.65e-04	6.41e-05
69	11	-2.78e-03	-0.09	-9.84e-03	-2.31e-06	-9.88e-06	4.64e-06
70	1	-8.14e-03	-7.80e-03	-9.20e-03	-9.70e-05	-2.87e-05	-1.13e-05
70	11	-3.69e-03	-0.09	-2.72e-03	-4.89e-05	-1.20e-05	-1.73e-06
70	12	-3.50e-03	0.09	-8.29e-03	-6.65e-05	-1.05e-05	-9.32e-06
70	15	-0.09	-9.15e-03	-5.28e-03	-5.67e-05	-4.21e-04	1.32e-05
71	1	-7.65e-03	-0.06	-1.19	1.62e-03	-1.76e-04	-7.88e-06
71	11	-3.58e-03	-0.11	-0.43	4.99e-04	-4.77e-05	2.83e-06
71	15	-0.09	-0.02	-0.41	5.45e-04	-2.20e-04	6.10e-06
72	1	1.09e-03	-0.02	-0.07	2.09e-03	-2.62e-05	-1.06e-05
72	11	-1.71e-03	-0.10	-0.03	9.10e-04	-2.04e-05	8.76e-06
72	16	0.08	-5.93e-03	-0.02	7.04e-04	1.80e-04	1.55e-05
73	1	-8.53e-03	-0.07	-1.35	5.04e-04	-1.91e-04	1.46e-06
73	7	-0.09	-0.03	-0.46	1.67e-04	-2.18e-04	1.31e-05
73	11	-3.50e-03	-0.11	-0.47	8.96e-05	-4.81e-05	5.93e-06
74	1	-1.72e-03	-7.96e-03	-0.01	-9.24e-05	3.56e-05	-3.69e-05
74	11	-2.18e-03	-0.09	-8.60e-03	-1.25e-04	2.33e-05	-1.12e-05
74	15	-0.09	-8.99e-03	-6.52e-03	-5.78e-05	-3.35e-04	-2.17e-05
75	1	-7.74e-03	-0.06	-1.34	-6.96e-04	-1.88e-04	7.41e-06
75	7	-0.09	-0.03	-0.46	-2.40e-04	-2.09e-04	2.97e-05
75	11	-2.86e-03	-0.11	-0.45	-3.23e-04	-4.42e-05	7.52e-06
76	1	0.0	0.0	0.0	0.0	0.0	0.0
76	5	0.0	0.0	0.0	0.0	0.0	0.0
77	1	-6.71e-03	-0.06	-1.15	-1.75e-03	-1.66e-04	1.04e-05
77	7	-0.08	-0.02	-0.39	-5.97e-04	-1.93e-04	4.75e-05
77	11	-2.31e-03	-0.10	-0.38	-6.58e-04	-3.59e-05	8.40e-06
77	20	-4.34e-03	0.07	-0.40	-5.31e-04	-4.18e-05	-1.31e-06
78	1	-5.57e-03	-7.89e-03	-0.01	9.44e-05	-1.07e-05	-2.24e-05
78	11	-3.07e-03	-0.09	-7.85e-03	3.87e-05	-4.46e-06	-5.07e-06
78	15	-0.09	-9.06e-03	-6.35e-03	5.48e-05	-4.07e-04	-6.68e-06
79	1	-5.75e-03	-0.04	-0.82	-2.43e-03	-1.26e-04	6.65e-06
79	7	-0.07	-0.02	-0.28	-8.25e-04	-1.70e-04	4.82e-05
79	11	-1.84e-03	-0.10	-0.26	-8.37e-04	-2.36e-05	9.45e-06
79	20	-3.84e-03	0.07	-0.30	-8.10e-04	-3.60e-05	-4.72e-06
80	1	1.08e-03	-0.02	-0.07	2.09e-03	-2.62e-05	-1.05e-05
80	11	-1.72e-03	-0.09	-0.03	9.09e-04	-2.04e-05	8.81e-06
80	16	0.08	-5.77e-03	-0.03	7.03e-04	1.80e-04	1.56e-05
81	1	-5.83e-03	-0.02	-0.42	-2.49e-03	-6.89e-05	-4.18e-06
81	7	-0.07	-0.01	-0.15	-8.45e-04	-1.32e-04	4.04e-05
81	11	-7.30e-04	-0.09	-0.12	-7.79e-04	-9.28e-06	1.01e-05
81	12	-5.16e-03	0.08	-0.16	-9.10e-04	-2.51e-05	-1.35e-05
82	1	-2.41e-03	-0.04	-0.47	2.64e-03	-9.01e-05	-1.78e-05
82	11	-2.51e-03	-0.10	-0.18	9.88e-04	-3.35e-05	0.0
82	15	-0.09	-0.02	-0.16	9.01e-04	-2.15e-04	-1.43e-05
83	1	-3.64e-03	-0.03	-0.26	1.36e-03	3.30e-04	-3.92e-05
83	11	-3.06e-03	-0.09	-0.12	5.67e-04	9.88e-05	-8.14e-06
83	15	-0.09	-0.01	-0.10	4.73e-04	-1.30e-04	-1.88e-05
84	1	-5.48e-03	-0.05	-0.87	2.40e-03	-1.41e-04	-1.34e-05
84	11	-3.20e-03	-0.11	-0.33	8.24e-04	-4.29e-05	1.69e-06
84	15	-0.09	-0.02	-0.30	8.16e-04	-2.20e-04	-5.28e-06
85	1	-6.47e-03	-0.04	-0.47	1.04e-03	4.28e-04	-3.39e-05
85	9	-6.22e-04	-0.09	-0.19	3.68e-04	1.22e-04	-1.39e-05
85	11	-3.74e-03	-0.09	-0.19	3.68e-04	1.15e-04	-4.98e-06
85	15	-0.09	-0.01	-0.17	3.60e-04	-1.06e-04	-8.36e-06
86	1	-7.62e-03	-0.06	-1.18	1.61e-03	-1.76e-04	-7.86e-06
86	11	-3.57e-03	-0.11	-0.43	4.98e-04	-4.77e-05	2.84e-06
86	15	-0.09	-0.02	-0.40	5.46e-04	-2.20e-04	6.11e-06
87	1	-8.21e-03	-0.04	-0.58	3.68e-04	4.34e-04	-2.70e-05
87	9	-1.79e-03	-0.09	-0.23	7.85e-05	1.16e-04	-1.13e-05
87	11	-3.79e-03	-0.09	-0.23	7.83e-05	1.11e-04	-2.38e-06
87	15	-0.09	-0.02	-0.21	1.25e-04	-9.95e-05	2.95e-06

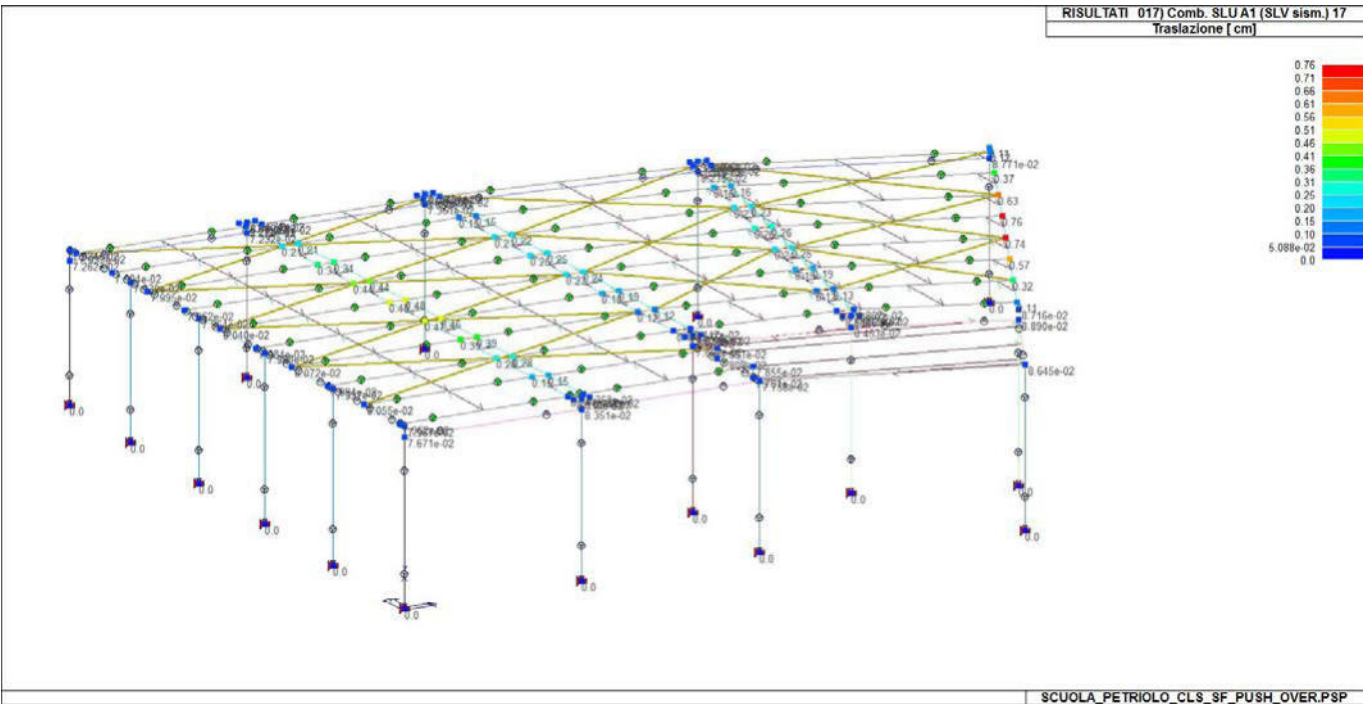
88	1	-8.48e-03	-0.07	-1.35	5.03e-04	-1.91e-04	1.47e-06
88	7	-0.09	-0.03	-0.46	1.68e-04	-2.18e-04	1.31e-05
88	11	-3.49e-03	-0.11	-0.47	8.97e-05	-4.81e-05	5.92e-06
89	1	-8.77e-03	-0.04	-0.58	-4.10e-04	3.59e-04	-1.71e-05
89	7	-0.09	-0.02	-0.20	-1.44e-04	-1.11e-04	1.07e-05
89	9	-2.48e-03	-0.09	-0.22	-2.13e-04	9.03e-05	-8.42e-06
89	11	-3.62e-03	-0.09	-0.22	-2.13e-04	8.81e-05	0.0
90	1	-7.66e-03	-0.06	-1.33	-6.95e-04	-1.88e-04	7.40e-06
90	7	-0.09	-0.02	-0.45	-2.39e-04	-2.09e-04	2.97e-05
90	11	-2.84e-03	-0.11	-0.45	-3.22e-04	-4.42e-05	7.51e-06
90	16	0.08	-0.02	-0.46	-2.34e-04	1.22e-04	-3.14e-05
91	1	-8.01e-03	-0.04	-0.46	-1.04e-03	2.39e-04	-7.42e-06
91	7	-0.09	-0.01	-0.16	-3.60e-04	-1.31e-04	2.57e-05
91	11	-2.89e-03	-0.09	-0.16	-4.18e-04	5.82e-05	3.04e-06
92	1	-6.63e-03	-0.06	-1.14	-1.75e-03	-1.66e-04	1.03e-05
92	7	-0.08	-0.02	-0.39	-5.95e-04	-1.93e-04	4.75e-05
92	11	-2.29e-03	-0.10	-0.38	-6.57e-04	-3.60e-05	8.39e-06
92	20	-4.32e-03	0.06	-0.40	-5.31e-04	-4.18e-05	-1.32e-06
93	1	-6.82e-03	-0.03	-0.26	-1.27e-03	9.71e-05	0.0
93	7	-0.08	-0.01	-0.09	-4.39e-04	-1.57e-04	4.62e-05
93	11	-2.27e-03	-0.08	-0.09	-4.53e-04	2.17e-05	3.57e-06
93	20	-4.82e-03	0.06	-0.10	-4.26e-04	1.62e-05	-1.23e-06
94	1	-5.67e-03	-0.04	-0.82	-2.42e-03	-1.26e-04	6.55e-06
94	7	-0.07	-0.02	-0.27	-8.21e-04	-1.70e-04	4.81e-05
94	11	-1.82e-03	-0.10	-0.26	-8.35e-04	-2.36e-05	9.42e-06
94	20	-3.81e-03	0.07	-0.30	-8.09e-04	-3.60e-05	-4.74e-06
95	1	-5.33e-03	-0.02	-0.06	-8.88e-04	-1.72e-05	0.0
95	7	-0.07	-7.84e-03	-0.02	-2.99e-04	-1.70e-04	6.03e-05
95	11	-2.01e-03	-0.08	-0.02	-2.34e-04	-1.64e-06	0.0
95	12	-3.66e-03	0.06	-0.02	-3.68e-04	-3.39e-06	0.0
96	1	-5.79e-03	-0.03	-0.42	-2.48e-03	-6.90e-05	-4.30e-06
96	7	-0.07	-0.01	-0.14	-8.41e-04	-1.32e-04	4.03e-05
96	11	-7.30e-04	-0.09	-0.12	-7.78e-04	-9.31e-06	1.01e-05
96	12	-5.15e-03	0.08	-0.16	-9.09e-04	-2.51e-05	-1.36e-05
97	1	-7.31e-03	-7.34e-03	-5.58e-03	-3.00e-05	-2.58e-05	7.09e-06
97	7	-0.08	-8.16e-03	-3.31e-03	-1.78e-05	-3.20e-04	6.37e-05
97	11	-2.09e-03	-0.09	-2.28e-03	1.21e-05	-4.88e-06	7.44e-06
97	12	-4.75e-03	0.09	-4.53e-03	-5.35e-05	-1.66e-05	-2.53e-06
98	1	-6.72e-03	-0.04	-0.30	1.48e-03	-3.28e-04	-1.38e-05
98	9	-8.30e-04	-0.10	-0.13	5.95e-04	-6.84e-05	-1.30e-05
98	15	-0.09	-0.01	-0.11	4.63e-04	-3.46e-04	-6.41e-06
98	17	-2.93e-04	-0.10	-0.13	5.95e-04	-6.62e-05	-1.43e-05
99	1	-3.71e-03	-0.04	-0.28	1.38e-03	3.29e-04	-3.92e-05
99	9	8.93e-04	-0.09	-0.12	5.69e-04	1.10e-04	-1.69e-05
99	11	-3.08e-03	-0.09	-0.12	5.69e-04	9.87e-05	-8.13e-06
99	15	-0.09	-0.01	-0.09	4.76e-04	-1.30e-04	-1.88e-05
100	1	-8.60e-03	-0.05	-0.53	1.12e-03	-2.01e-04	-8.98e-06
100	9	-1.79e-03	-0.10	-0.21	3.79e-04	-1.74e-05	-1.09e-05
100	15	-0.09	-0.01	-0.19	3.32e-04	-2.78e-04	2.67e-06
100	17	-1.42e-03	-0.10	-0.21	3.79e-04	-1.56e-05	-1.21e-05
101	1	-6.53e-03	-0.04	-0.48	1.05e-03	4.28e-04	-3.39e-05
101	9	-6.46e-04	-0.09	-0.20	3.67e-04	1.22e-04	-1.39e-05
101	11	-3.75e-03	-0.09	-0.20	3.67e-04	1.15e-04	-4.99e-06
101	15	-0.09	-0.02	-0.16	3.60e-04	-1.06e-04	-8.36e-06
102	1	-9.76e-03	-0.05	-0.65	3.87e-04	-1.66e-05	-7.84e-06
102	9	-2.64e-03	-0.10	-0.24	7.48e-05	4.63e-05	-1.05e-05
102	15	-0.09	-0.01	-0.23	7.97e-05	-1.90e-04	1.15e-05
102	17	-2.43e-03	-0.10	-0.24	7.48e-05	4.76e-05	-1.18e-05
103	1	-8.25e-03	-0.05	-0.60	3.58e-04	4.34e-04	-2.71e-05
103	9	-1.81e-03	-0.09	-0.23	7.45e-05	1.16e-04	-1.14e-05
103	11	-3.79e-03	-0.09	-0.23	7.46e-05	1.11e-04	-2.39e-06
103	15	-0.09	-0.02	-0.20	1.23e-04	-9.95e-05	2.95e-06
104	1	-9.80e-03	-0.05	-0.64	-4.47e-04	1.71e-04	-6.69e-06
104	7	-0.09	-0.01	-0.22	-2.00e-04	-9.90e-05	1.56e-05
104	9	-3.16e-03	-0.10	-0.22	-2.23e-04	1.05e-04	-1.02e-05
104	17	-3.12e-03	-0.10	-0.22	-2.23e-04	1.06e-04	-1.13e-05
105	1	-8.79e-03	-0.04	-0.59	-4.26e-04	3.60e-04	-1.72e-05
105	7	-0.09	-0.02	-0.20	-1.47e-04	-1.11e-04	1.07e-05
105	9	-2.49e-03	-0.09	-0.22	-2.18e-04	9.05e-05	-8.43e-06
105	11	-3.61e-03	-0.09	-0.22	-2.18e-04	8.83e-05	0.0
106	1	-8.68e-03	-0.04	-0.51	-1.12e-03	3.05e-04	-5.79e-06
106	5	-0.09	-0.01	-0.17	-4.18e-04	-2.76e-05	2.58e-05
106	17	-3.41e-03	-0.09	-0.16	-4.25e-04	1.39e-04	-1.11e-05
106	18	-5.32e-03	0.06	-0.18	-3.42e-04	5.99e-05	6.72e-06
107	1	-8.02e-03	-0.04	-0.47	-1.06e-03	2.40e-04	-7.46e-06
107	7	-0.09	-0.01	-0.16	-3.63e-04	-1.31e-04	2.57e-05
107	9	-2.89e-03	-0.09	-0.16	-4.23e-04	5.81e-05	-5.80e-06
107	11	-2.88e-03	-0.09	-0.16	-4.23e-04	5.84e-05	3.03e-06

108	1	-6.76e-03	-0.03	-0.28	-1.38e-03	3.40e-04	-4.37e-06
108	5	-0.08	-0.01	-0.10	-4.91e-04	6.54e-06	4.14e-05
108	17	-3.64e-03	-0.09	-0.08	-4.45e-04	1.31e-04	-1.19e-05
108	18	-3.63e-03	0.06	-0.11	-5.00e-04	9.54e-05	8.94e-06
109	1	-6.81e-03	-0.03	-0.26	-1.29e-03	9.79e-05	0.0
109	7	-0.08	-9.88e-03	-0.09	-4.41e-04	-1.57e-04	4.62e-05
109	11	-2.26e-03	-0.08	-0.09	-4.55e-04	2.19e-05	3.56e-06
109	18	-3.81e-03	0.06	-0.10	-4.29e-04	1.90e-05	7.17e-06
110	1	-4.20e-03	-0.02	-0.06	-1.00e-03	2.34e-04	-1.08e-05
110	5	-0.07	-8.62e-03	-0.02	-3.38e-04	-1.00e-05	6.28e-05
110	17	-3.99e-03	-0.09	-0.01	-2.04e-04	6.90e-05	-2.26e-05
110	18	-1.07e-03	0.07	-0.03	-4.81e-04	9.11e-05	1.22e-05
111	1	-5.32e-03	-0.02	-0.05	-8.88e-04	-1.73e-05	0.0
111	7	-0.07	-6.65e-03	-0.02	-2.98e-04	-1.70e-04	6.03e-05
111	11	-2.00e-03	-0.08	-0.02	-2.33e-04	-1.81e-06	0.0
111	18	-1.72e-03	0.06	-0.02	-3.68e-04	1.84e-06	9.07e-06
112	1	-0.01	-0.07	-0.60	2.88e-03	-1.24e-03	9.36e-06
112	13	-0.09	-0.02	-0.33	1.44e-03	-9.58e-04	6.55e-06
112	17	-6.30e-03	-0.12	-0.35	1.67e-03	-6.29e-04	-6.36e-06
113	1	-6.83e-03	-0.04	-0.30	1.48e-03	-3.29e-04	-1.38e-05
113	9	-9.28e-04	-0.10	-0.13	5.96e-04	-6.85e-05	-1.30e-05
113	15	-0.09	-0.01	-0.10	4.67e-04	-3.47e-04	-6.42e-06
113	17	-3.97e-04	-0.10	-0.13	5.96e-04	-6.63e-05	-1.43e-05
114	1	-0.02	-0.08	-1.08	2.33e-03	-7.46e-04	-6.26e-06
114	9	-9.81e-03	-0.13	-0.61	1.30e-03	-3.22e-04	-1.15e-05
114	13	-0.10	-0.03	-0.59	1.14e-03	-6.63e-04	2.47e-06
114	17	-9.59e-03	-0.13	-0.61	1.30e-03	-3.20e-04	-1.30e-05
115	1	-8.68e-03	-0.05	-0.53	1.13e-03	-2.02e-04	-8.99e-06
115	9	-1.87e-03	-0.10	-0.21	3.80e-04	-1.76e-05	-1.09e-05
115	15	-0.09	-0.01	-0.18	3.36e-04	-2.79e-04	2.67e-06
115	17	-1.51e-03	-0.10	-0.21	3.80e-04	-1.59e-05	-1.21e-05
116	1	-0.02	-0.09	-1.35	8.32e-04	-1.64e-04	-1.21e-05
116	5	-0.10	-0.03	-0.73	3.35e-04	-3.19e-04	7.08e-06
116	9	-0.01	-0.13	-0.75	4.39e-04	8.32e-06	-1.53e-05
116	17	-0.01	-0.13	-0.75	4.39e-04	1.02e-05	-1.68e-05
117	1	-9.83e-03	-0.05	-0.65	3.93e-04	-1.76e-05	-7.85e-06
117	9	-2.71e-03	-0.10	-0.24	7.57e-05	4.61e-05	-1.05e-05
117	15	-0.09	-0.01	-0.22	8.45e-05	-1.91e-04	1.15e-05
117	17	-2.51e-03	-0.10	-0.24	7.57e-05	4.74e-05	-1.18e-05
118	1	-0.02	-0.08	-1.33	-8.88e-04	5.17e-04	-1.82e-05
118	5	-0.10	-0.03	-0.72	-5.84e-04	7.06e-05	1.64e-05
118	9	-0.01	-0.12	-0.73	-5.09e-04	3.79e-04	-1.85e-05
118	17	-0.01	-0.13	-0.73	-5.09e-04	3.81e-04	-1.99e-05
119	1	-9.85e-03	-0.05	-0.64	-4.44e-04	1.70e-04	-6.69e-06
119	7	-0.09	-0.01	-0.22	-1.96e-04	-9.97e-05	1.56e-05
119	9	-3.22e-03	-0.10	-0.22	-2.22e-04	1.05e-04	-1.02e-05
119	17	-3.19e-03	-0.10	-0.22	-2.22e-04	1.06e-04	-1.13e-05
120	1	-0.02	-0.07	-1.04	-2.23e-03	1.03e-03	-2.04e-05
120	5	-0.09	-0.02	-0.56	-1.30e-03	3.67e-04	3.19e-05
120	11	-8.51e-03	-0.11	-0.56	-1.22e-03	6.33e-04	-1.28e-05
120	17	-0.01	-0.12	-0.56	-1.22e-03	6.46e-04	-2.16e-05
121	1	-8.72e-03	-0.04	-0.51	-1.12e-03	3.05e-04	-5.79e-06
121	5	-0.09	-0.01	-0.17	-4.15e-04	-2.81e-05	2.58e-05
121	17	-3.48e-03	-0.09	-0.17	-4.25e-04	1.39e-04	-1.11e-05
121	18	-5.29e-03	0.06	-0.18	-3.41e-04	5.97e-05	6.72e-06
122	1	-0.01	-0.05	-0.57	-2.63e-03	1.11e-03	-1.23e-05
122	5	-0.08	-0.02	-0.30	-1.49e-03	4.25e-04	4.54e-05
122	17	-7.26e-03	-0.10	-0.30	-1.39e-03	6.60e-04	-1.36e-05
122	18	-6.07e-03	0.06	-0.31	-1.44e-03	4.99e-04	6.76e-06
123	1	-6.80e-03	-0.03	-0.29	-1.39e-03	3.40e-04	-4.37e-06
123	5	-0.08	-9.33e-03	-0.09	-4.90e-04	6.25e-06	4.14e-05
123	17	-3.72e-03	-0.09	-0.09	-4.47e-04	1.32e-04	-1.19e-05
123	18	-3.59e-03	0.06	-0.11	-4.99e-04	9.53e-05	8.94e-06
124	1	-4.19e-03	-0.03	-0.11	-1.51e-03	4.99e-04	-1.31e-05
124	5	-0.07	-6.93e-03	-0.06	-8.58e-04	1.06e-04	8.04e-05
124	17	-3.97e-03	-0.09	-0.06	-7.00e-04	2.82e-04	-3.38e-05
124	18	-1.41e-03	0.07	-0.07	-9.36e-04	2.35e-04	2.05e-05
125	1	-4.26e-03	-0.02	-0.06	-1.01e-03	2.35e-04	-1.08e-05
125	5	-0.07	-7.58e-03	-0.02	-3.39e-04	-9.88e-06	6.28e-05
125	17	-4.10e-03	-0.09	-0.02	-2.08e-04	6.96e-05	-2.26e-05
125	18	-1.04e-03	0.07	-0.03	-4.82e-04	9.13e-05	1.22e-05
126	1	1.16e-03	-0.03	-0.05	1.08e-03	1.31e-04	-4.55e-05
126	9	3.48e-03	-0.08	-0.02	5.88e-04	7.37e-05	-1.93e-05
126	11	-1.59e-03	-0.08	-0.02	5.88e-04	5.77e-05	-9.86e-06
126	16	0.08	-0.01	-0.02	3.73e-04	3.16e-04	-1.32e-05
127	1	-2.67e-03	-0.03	-0.05	1.16e-03	-3.04e-04	-4.77e-06
127	15	-0.08	-7.98e-03	-0.02	3.81e-04	-3.59e-04	-1.59e-05
127	17	2.32e-03	-0.09	-0.02	6.31e-04	-6.33e-05	-1.18e-05

128	1	-4.16e-03	-0.02	-4.42e-03	-5.59e-04	1.23e-04	-1.39e-05
128	7	-0.07	-8.27e-03	-2.19e-03	-1.74e-04	-4.69e-05	1.71e-05
128	17	-5.23e-03	-0.09	-2.08e-03	1.63e-05	1.45e-05	-2.13e-05
128	18	1.32e-04	0.07	-2.37e-03	-3.96e-04	6.94e-05	4.58e-06
Nodo		Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
		-0.10	-0.13	-1.35	-2.63e-03	-1.24e-03	-4.58e-05
		0.08	0.09	3.02e-03	2.88e-03	1.11e-03	1.04e-04



41_RIS_SPOSTAMENTI_001_Comb. SLU A1 1



41_RIS_SPOSTAMENTI_017_Comb. SLU A1 (SLV sism.) 17

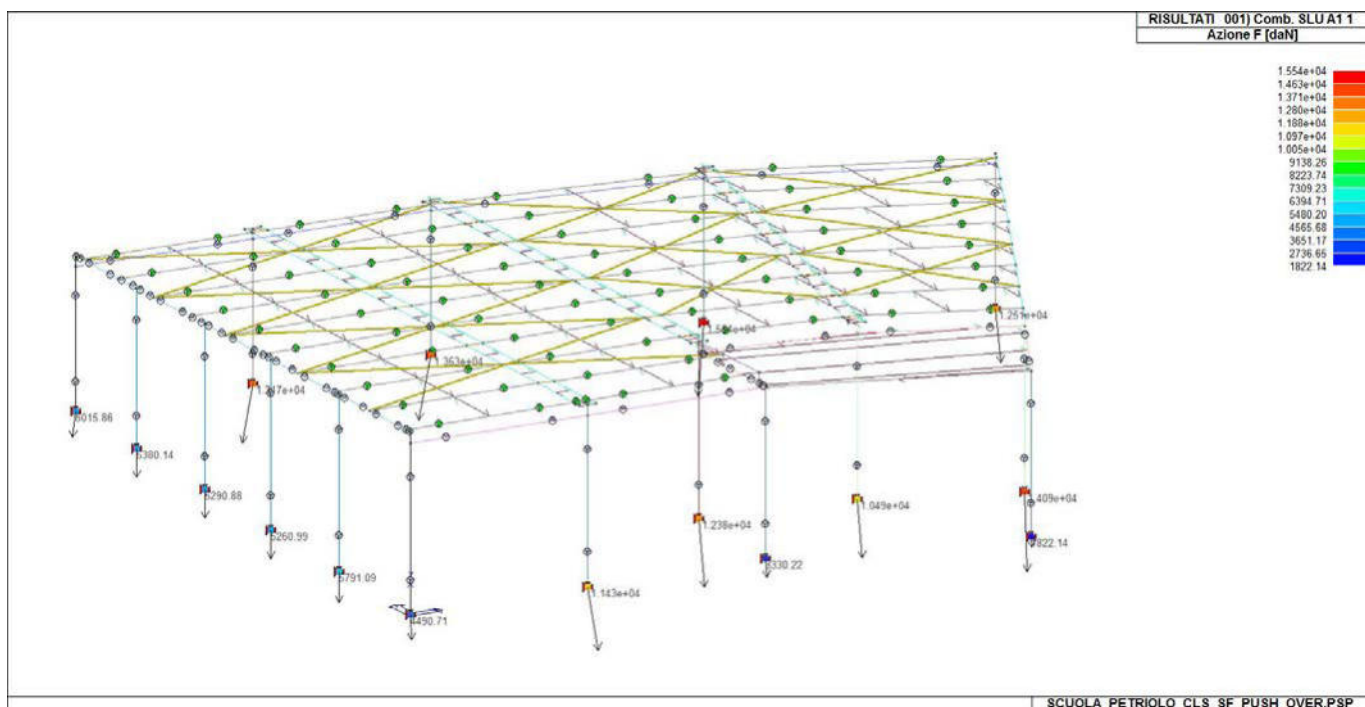
Nodo	Cmb	Azione X daN	Azione Y daN	Azione Z daN	Azione RX daN cm	Azione RY daN cm	Azione RZ daN cm
1	1	-424.56	454.28	-4977.17	-3.160e+04	-3.570e+04	359.04
1	3	-425.96	380.68	-4903.36	-2.759e+04	-3.604e+04	-414.82
1	4	-259.97	266.96	-3211.65	-1.855e+04	-2.206e+04	216.24
1	11	-334.59	-1118.12	-2631.42	2.333e+05	-3.135e+04	-450.86
1	12	-266.45	1554.29	-4297.18	-2.667e+05	-2.000e+04	-1009.52
1	15	-1325.99	127.92	-4000.88	351.73	-2.085e+05	-1490.65
2	1	-189.26	-703.85	-4431.17	8.485e+04	-2.567e+04	-3988.43
2	4	-129.17	-413.77	-3034.72	4.989e+04	-1.689e+04	-2291.71
2	7	-709.33	-372.47	-3649.34	4.947e+04	-1.242e+05	2360.48
2	8	472.98	-253.11	-2468.31	2.442e+04	9.376e+04	-4940.29
2	11	-66.47	-1170.44	-3563.31	2.237e+05	-6186.16	-304.34
3	1	26.26	-626.86	-3270.58	9.986e+04	-9571.90	1218.76
3	2	28.46	-488.91	-2248.77	7.947e+04	-6036.17	962.46
3	3	37.51	-514.84	-3548.60	7.976e+04	-6502.37	925.01
3	7	-980.99	-284.36	-2177.58	4.132e+04	-2.072e+05	7504.73
3	11	119.07	-1605.20	-4448.05	2.828e+05	1.415e+04	4072.06
3	12	-31.48	1037.35	-1192.27	-1.981e+05	-1.693e+04	-3160.81
4	1	-218.79	-2554.58	-1.211e+04	3.100e+05	-3.421e+04	-1874.65
4	4	-143.31	-1486.08	-7830.16	1.803e+05	-2.130e+04	-1045.93
4	7	-1604.76	-787.00	-7276.77	9.734e+04	-3.047e+05	3506.64
4	11	-127.88	-2826.30	-4690.81	4.593e+05	-1.836e+04	1351.96
4	12	-146.60	1154.84	-7591.26	-2.519e+05	-2.200e+04	-3125.29
5	1	-109.17	-340.13	-1786.78	8.283e+04	-2.704e+04	-3096.34
5	2	-76.55	-270.61	-1409.14	6.353e+04	-1.753e+04	-2374.58
5	3	-100.47	-284.36	-1942.02	6.816e+04	-2.522e+04	-2550.44
5	5	-759.63	-344.09	-2073.67	4.603e+04	-1.913e+05	2526.49
5	17	-429.85	-1606.32	-3241.13	3.003e+05	-5.399e+04	-4449.06
5	18	305.36	1285.10	47.29	-2.258e+05	2.226e+04	1601.04
6	1	-1381.72	-3794.82	-1.350e+04	4.529e+05	-1.545e+05	-2586.85
6	4	-731.36	-2093.54	-8277.60	2.506e+05	-8.205e+04	-1313.64
6	5	-2168.87	-1937.91	-6874.85	2.197e+05	-3.609e+05	2167.71
6	6	776.54	-1890.12	-9916.58	2.276e+05	2.025e+05	-5888.24
6	17	-856.12	-3846.19	-7359.10	5.834e+05	-1.014e+05	-4603.38
7	1	2990.21	3759.19	-1.155e+04	-3.049e+05	2.645e+05	5484.58
7	4	1709.99	2049.01	-6834.99	-1.658e+05	1.510e+05	3217.48
7	14	2870.32	1803.22	-7314.85	-1.289e+05	3.674e+05	5047.05
7	15	682.19	2131.18	-6596.85	-1.993e+05	-5.449e+04	1989.43
7	16	2859.61	1776.64	-7320.45	-1.245e+05	3.660e+05	4983.30
7	18	1680.27	2907.00	-6908.86	-3.490e+05	1.347e+05	3807.86
8	1	822.44	4049.79	-1.498e+04	-3.012e+05	7.283e+04	-2167.35
8	4	475.66	2372.28	-9249.37	-1.774e+05	4.181e+04	-1185.58
8	9	351.47	-312.09	-7983.87	2.410e+05	3.538e+04	-3410.13
8	10	180.94	3231.77	-8617.73	-4.509e+05	1.075e+04	632.35
8	16	1966.34	1304.94	-8308.62	-7.791e+04	3.270e+05	-1978.55
8	18	166.38	3257.91	-8613.92	-4.546e+05	8073.01	878.31
9	1	-823.52	-3799.10	-9744.11	4.483e+05	-9.642e+04	-3496.57
9	4	-474.90	-2202.78	-6510.15	2.595e+05	-5.543e+04	-1774.47
9	7	-2265.19	-1194.39	-5156.56	1.445e+05	-3.709e+05	1170.99
9	9	-196.28	-2873.74	-4905.10	4.764e+05	-3.072e+04	-4677.52
9	17	-207.63	-2871.21	-4902.33	4.763e+05	-3.271e+04	-4978.93
9	18	-446.14	158.57	-5534.16	-1.509e+05	-4.732e+04	567.77
10	1	-501.19	3778.22	-1.309e+04	-2.909e+05	-4.109e+04	-8775.90
10	3	-505.91	2787.56	-1.158e+04	-2.132e+05	-4.200e+04	-7063.56
10	4	-307.03	2227.61	-8143.32	-1.720e+05	-2.555e+04	-5092.41
10	15	-2182.42	1359.31	-7002.59	-1.043e+05	-3.454e+05	-3198.22
10	16	1470.00	1274.27	-7528.91	-9.445e+04	2.854e+05	-4413.36
10	20	-355.61	2915.08	-7495.56	-4.170e+05	-2.665e+04	-7510.09
11	1	-144.01	-4458.68	-1.052e+04	5.054e+05	-2.722e+04	-2617.18
11	4	-80.84	-2614.48	-6930.06	2.963e+05	-1.545e+04	-1520.31
11	7	-1412.27	-1559.91	-5487.44	1.802e+05	-2.520e+05	722.99
11	11	30.72	-2607.56	-5538.25	4.051e+05	4940.96	2587.75
11	12	-164.93	-452.22	-5197.75	-5.740e+04	-3.065e+04	-4703.72
12	1	115.33	4439.71	-1.239e+04	-3.962e+05	1.214e+04	-1169.95
12	4	65.77	2605.05	-7640.09	-2.325e+05	6741.03	-644.36
12	11	25.73	422.06	-6344.08	6.065e+04	-425.90	2142.11
12	12	118.84	2591.64	-6619.65	-3.287e+05	1.477e+04	-2792.55
12	16	1744.69	1541.33	-6514.19	-1.404e+05	2.746e+05	-493.42
13	1	-34.07	-5.48	-5790.98	3943.78	-8145.55	433.67
13	2	-24.99	-11.15	-3998.66	4085.08	-5895.88	332.15
13	4	-21.14	-2.91	-3611.35	2288.09	-4809.24	245.21
13	7	-256.35	-32.39	-3572.15	7244.09	-7.432e+04	3786.71
13	11	-13.69	-639.05	-3371.80	1.115e+05	-2676.56	510.92
13	12	-23.60	654.24	-3794.20	-1.110e+05	-5547.03	-194.97
14	1	-41.08	-66.87	-5290.30	1.075e+04	-1.029e+04	-428.68

14	4	-23.91	-39.04	-3305.05	6297.51	-5959.59	-232.38
14	7	-331.98	-64.73	-3300.20	1.058e+04	-9.792e+04	847.13
14	11	-18.55	-747.08	-3253.96	1.237e+05	-4513.04	24.01
14	12	-20.20	700.23	-3362.08	-1.163e+05	-4831.63	-397.24
33	1	-34.07	-60.14	-5260.53	9967.40	-9515.40	490.06
33	4	-19.72	-35.09	-3293.61	5836.82	-5460.13	293.26
33	7	-292.58	-59.86	-3296.86	1.018e+04	-8.886e+04	3196.83
33	11	-12.92	-685.57	-3389.17	1.169e+05	-3490.27	278.49
33	12	-19.37	647.60	-3203.87	-1.105e+05	-5317.02	173.55
76	1	-52.81	-70.67	-5379.42	1.122e+04	-8118.57	-1746.99
76	4	-31.86	-41.50	-3352.10	6596.02	-4864.59	-997.87
76	11	-37.64	-874.97	-3807.65	1.369e+05	-5721.76	-384.29
76	12	-27.35	832.98	-2835.57	-1.298e+05	-3140.67	-1102.56
76	15	-404.97	-82.13	-3359.28	1.299e+04	-1.056e+05	-657.20

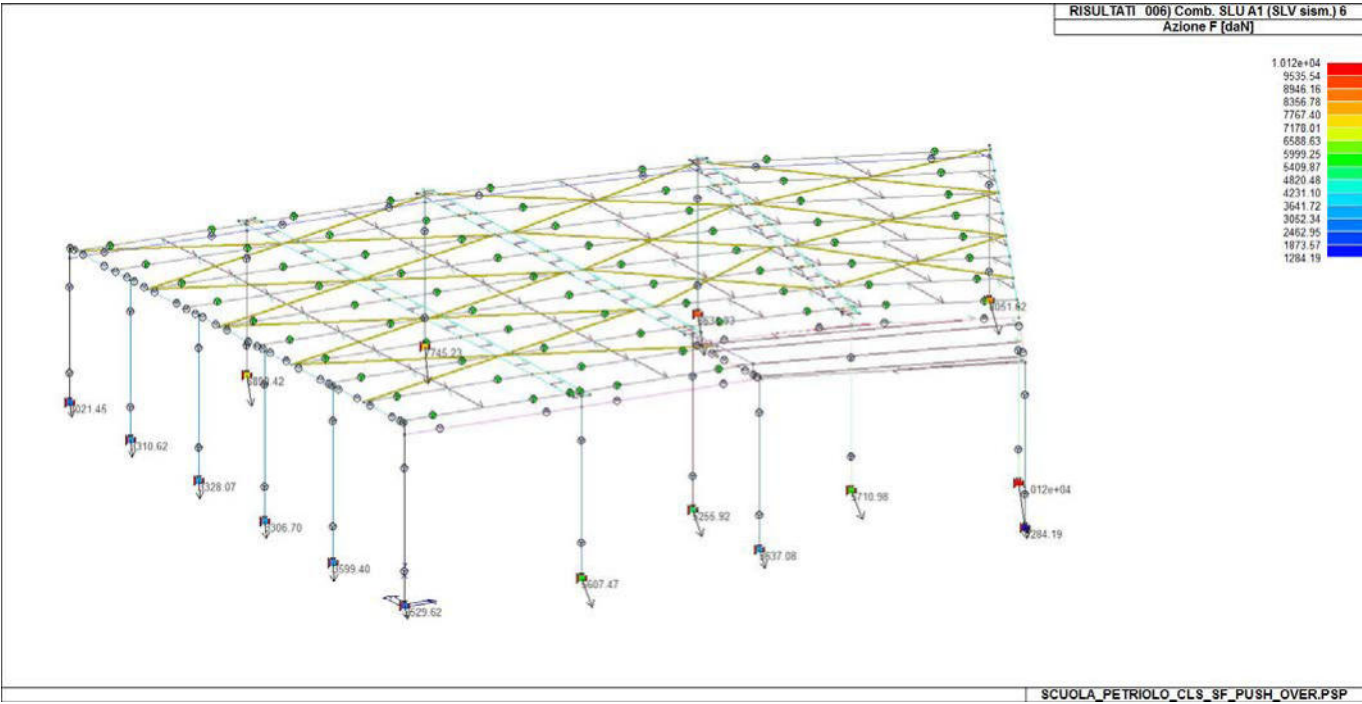
Nodo	Azione X	Azione Y	Azione Z	Azione RX	Azione RY	Azione RZ
	-2265.19	-4458.68	-1.498e+04	-4.546e+05	-3.709e+05	-8775.90
	2990.21	4439.71	47.29	5.834e+05	3.674e+05	7504.73

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	-424.56	454.28	-4977.17	-3.160e+04	-3.570e+04	359.04
	11	-334.59	-1118.12	-2631.42	2.333e+05	-3.135e+04	-450.86
	12	-266.45	1554.29	-4297.18	-2.667e+05	-2.000e+04	-1009.52
	11	-334.59	-1118.12	-2631.42	2.333e+05	-3.135e+04	-450.86
	15	-1325.99	127.92	-4000.88	351.73	-2.085e+05	-1490.65
	16	725.68	306.26	-2923.93	-3.331e+04	1.575e+05	95.68
2	1	-189.26	-703.85	-4431.17	8.485e+04	-2.567e+04	-3988.43
	8	472.98	-253.11	-2468.31	2.442e+04	9.376e+04	-4940.29
	12	-168.07	546.03	-2552.41	-1.501e+05	-2.398e+04	-2200.30
	11	-66.47	-1170.44	-3563.31	2.237e+05	-6186.16	-304.34
	7	-709.33	-372.47	-3649.34	4.947e+04	-1.242e+05	2360.48
	8	472.98	-253.11	-2468.31	2.442e+04	9.376e+04	-4940.29
3	11	119.07	-1605.20	-4448.05	2.828e+05	1.415e+04	4072.06
	12	-31.48	1037.35	-1192.27	-1.981e+05	-1.693e+04	-3160.81
	12	-31.48	1037.35	-1192.27	-1.981e+05	-1.693e+04	-3160.81
	11	119.07	-1605.20	-4448.05	2.828e+05	1.415e+04	4072.06
	7	-980.99	-284.36	-2177.58	4.132e+04	-2.072e+05	7504.73
	8	1066.40	-285.43	-3461.90	4.377e+04	2.039e+05	-6411.60
4	1	-218.79	-2554.58	-1.211e+04	3.100e+05	-3.421e+04	-1874.65
	11	-127.88	-2826.30	-4690.81	4.593e+05	-1.836e+04	1351.96
	12	-146.60	1154.84	-7591.26	-2.519e+05	-2.200e+04	-3125.29
	11	-127.88	-2826.30	-4690.81	4.593e+05	-1.836e+04	1351.96
	7	-1604.76	-787.00	-7276.77	9.734e+04	-3.047e+05	3506.64
	8	1325.41	-886.42	-5008.76	1.105e+05	2.633e+05	-5386.54
5	17	-429.85	-1606.32	-3241.13	3.003e+05	-5.399e+04	-4449.06
	18	305.36	1285.10	47.29	-2.258e+05	2.226e+04	1601.04
	18	305.36	1285.10	47.29	-2.258e+05	2.226e+04	1601.04
	17	-429.85	-1606.32	-3241.13	3.003e+05	-5.399e+04	-4449.06
	5	-759.63	-344.09	-2073.67	4.603e+04	-1.913e+05	2526.49
	6	637.31	27.36	-1114.55	2.770e+04	1.599e+05	-5261.67
6	1	-1381.72	-3794.82	-1.350e+04	4.529e+05	-1.545e+05	-2586.85
	5	-2168.87	-1937.91	-6874.85	2.197e+05	-3.609e+05	2167.71
	18	-533.63	10.26	-9430.22	-1.347e+05	-5.646e+04	652.65
	17	-856.12	-3846.19	-7359.10	5.834e+05	-1.014e+05	-4603.38
	5	-2168.87	-1937.91	-6874.85	2.197e+05	-3.609e+05	2167.71
	6	776.54	-1890.12	-9916.58	2.276e+05	2.025e+05	-5888.24
7	1	2990.21	3759.19	-1.155e+04	-3.049e+05	2.645e+05	5484.58
	15	682.19	2131.18	-6596.85	-1.993e+05	-5.449e+04	1989.43
	18	1680.27	2907.00	-6908.86	-3.490e+05	1.347e+05	3807.86
	17	1858.19	998.25	-7007.89	2.572e+04	1.764e+05	3172.26
	13	671.05	2104.11	-6602.27	-1.948e+05	-5.593e+04	1905.17
	14	2870.32	1803.22	-7314.85	-1.289e+05	3.674e+05	5047.05
8	1	822.44	4049.79	-1.498e+04	-3.012e+05	7.283e+04	-2167.35
	9	351.47	-312.09	-7983.87	2.410e+05	3.538e+04	-3410.13
	18	166.38	3257.91	-8613.92	-4.546e+05	8073.01	878.31
	17	366.28	-338.08	-7987.74	2.447e+05	3.809e+04	-3661.86
	15	-1431.37	1611.96	-8292.78	-1.314e+05	-2.806e+05	-761.96
	16	1966.34	1304.94	-8308.62	-7.791e+04	3.270e+05	-1978.55
9	1	-823.52	-3799.10	-9744.11	4.483e+05	-9.642e+04	-3496.57
	17	-207.63	-2871.21	-4902.33	4.763e+05	-3.271e+04	-4978.93
	10	-457.49	160.88	-5531.31	-1.509e+05	-4.931e+04	276.32
	9	-196.28	-2873.74	-4905.10	4.764e+05	-3.072e+04	-4677.52
	7	-2265.19	-1194.39	-5156.56	1.445e+05	-3.709e+05	1170.99
	8	1604.41	-1518.18	-5279.16	1.810e+05	2.897e+05	-5423.76
10	1	-501.19	3778.22	-1.309e+04	-2.909e+05	-4.109e+04	-8775.90
	15	-2182.42	1359.31	-7002.59	-1.043e+05	-3.454e+05	-3198.22

	20	-355.61	2915.08	-7495.56	-4.170e+05	-2.665e+04	-7510.09
	19	-359.31	-277.28	-7035.62	2.174e+05	-3.380e+04	-95.92
	15	-2182.42	1359.31	-7002.59	-1.043e+05	-3.454e+05	-3198.22
	16	1470.00	1274.27	-7528.91	-9.445e+04	2.854e+05	-4413.36
11	1	-144.01	-4458.68	-1.052e+04	5.054e+05	-2.722e+04	-2617.18
	12	-164.93	-452.22	-5197.75	-5.740e+04	-3.065e+04	-4703.72
	12	-164.93	-452.22	-5197.75	-5.740e+04	-3.065e+04	-4703.72
	1	-144.01	-4458.68	-1.052e+04	5.054e+05	-2.722e+04	-2617.18
	7	-1412.27	-1559.91	-5487.44	1.802e+05	-2.520e+05	722.99
	8	1274.20	-1501.94	-5249.85	1.679e+05	2.256e+05	-2841.38
12	1	115.33	4439.71	-1.239e+04	-3.962e+05	1.214e+04	-1169.95
	11	25.73	422.06	-6344.08	6.065e+04	-425.90	2142.11
	1	115.33	4439.71	-1.239e+04	-3.962e+05	1.214e+04	-1169.95
	11	25.73	422.06	-6344.08	6.065e+04	-425.90	2142.11
	15	-1596.02	1470.77	-6450.07	-1.273e+05	-2.596e+05	-166.66
	16	1744.69	1541.33	-6514.19	-1.404e+05	2.746e+05	-493.42
13	1	-34.07	-5.48	-5790.98	3943.78	-8145.55	433.67
	11	-13.69	-639.05	-3371.80	1.115e+05	-2676.56	510.92
	12	-23.60	654.24	-3794.20	-1.110e+05	-5547.03	-194.97
	11	-13.69	-639.05	-3371.80	1.115e+05	-2676.56	510.92
	7	-256.35	-32.39	-3572.15	7244.09	-7.432e+04	3786.71
	8	218.97	46.49	-3593.60	-6494.66	6.609e+04	-3471.77
14	1	-41.08	-66.87	-5290.30	1.075e+04	-1.029e+04	-428.68
	11	-18.55	-747.08	-3253.96	1.237e+05	-4513.04	24.01
	12	-20.20	700.23	-3362.08	-1.163e+05	-4831.63	-397.24
	11	-18.55	-747.08	-3253.96	1.237e+05	-4513.04	24.01
	7	-331.98	-64.73	-3300.20	1.058e+04	-9.792e+04	847.13
	8	293.96	16.67	-3315.64	-2945.49	8.881e+04	-1271.36
33	1	-34.07	-60.14	-5260.53	9967.40	-9515.40	490.06
	12	-19.37	647.60	-3203.87	-1.105e+05	-5317.02	173.55
	12	-19.37	647.60	-3203.87	-1.105e+05	-5317.02	173.55
	11	-12.92	-685.57	-3389.17	1.169e+05	-3490.27	278.49
	7	-292.58	-59.86	-3296.86	1.018e+04	-8.886e+04	3196.83
	8	260.80	20.71	-3296.34	-3544.80	8.021e+04	-2713.60
76	1	-52.81	-70.67	-5379.42	1.122e+04	-8118.57	-1746.99
	12	-27.35	832.98	-2835.57	-1.298e+05	-3140.67	-1102.56
	12	-27.35	832.98	-2835.57	-1.298e+05	-3140.67	-1102.56
	11	-37.64	-874.97	-3807.65	1.369e+05	-5721.76	-384.29
	15	-404.97	-82.13	-3359.28	1.299e+04	-1.056e+05	-657.20
	16	340.90	38.95	-3284.62	-5749.67	9.703e+04	-841.90



42_RIS_REAZIONI_001_Comb. SLU A1 1



42_RIS_REAZIONI_006_Comb. SLU A1 (SLV sism.) 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 pilastro
- tipo trave in elevazione
- tipo trave in fondazione

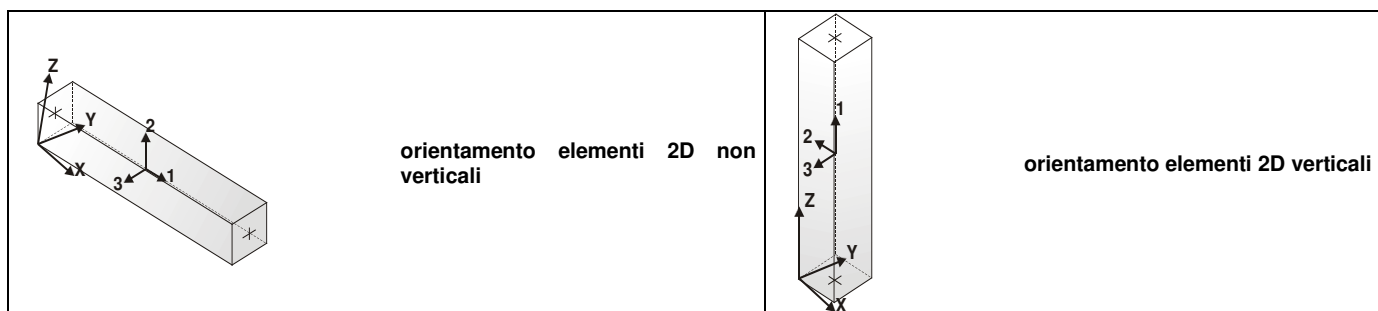
Per ogni elemento e per ogni combinazione (o caso di carico) vengono riportati i risultati più significativi.

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	cm	daN	daN	daN	daN cm	daN cm	daN cm
22	1	1.907e+04	-1.129e+04	2.74e-03	0.0	0.0	-1637.58	307.72	436.90	-2.392e+04	-2.003e+04	1.291e+04
		1.291e+04	-2.003e+04	2.46e-03	0.0	20.0	-1546.58	307.72	436.90	-2.392e+04	-1.129e+04	1.907e+04
22	2	6465.53	-7226.22	2.14e-03	0.0	0.0	-1054.34	220.36	286.99	-1.813e+04	-1.297e+04	2058.10
		2058.10	-1.297e+04	1.50e-03	0.0	20.0	-984.34	220.36	286.99	-1.813e+04	-7226.22	6465.53
22	3	2.395e+04	-1.083e+04	2.22e-03	0.0	0.0	-1569.30	268.46	410.49	-1.984e+04	-1.904e+04	1.858e+04
		1.858e+04	-1.904e+04	2.45e-03	0.0	20.0	-1478.30	268.46	410.49	-1.984e+04	-1.083e+04	2.395e+04
22	4	1.134e+04	-6774.48	1.62e-03	0.0	0.0	-985.99	180.94	260.80	-1.407e+04	-1.199e+04	7719.48
		7719.48	-1.199e+04	1.49e-03	0.0	20.0	-915.99	180.94	260.80	-1.407e+04	-6774.48	1.134e+04
22	7	1.229e+04	-1.868e+04	1.56e-03	0.0	0.0	-996.89	41.78	669.35	-2.248e+04	-3.207e+04	1.146e+04
		1.146e+04	-3.207e+04	-3.60e-03	0.0	20.0	-926.89	41.78	669.35	-2.248e+04	-1.868e+04	1.229e+04
22	8	2.678e+04	8103.99	8.81e-04	0.0	0.0	-1105.74	282.08	-192.39	893.13	8103.99	2.114e+04
		2.114e+04	4255.97	7.06e-03	0.0	20.0	-1035.74	282.08	-192.39	893.13	4255.97	2.678e+04
22	11	-9.219e+04	-7021.28	7.32e-03	0.0	0.0	-199.35	-524.42	270.32	-9841.76	-1.243e+04	-9.219e+04
		-1.027e+05	-1.243e+04	1.58e-03	0.0	20.0	-129.35	-524.42	270.32	-9841.76	-7021.28	-1.027e+05
22	12	1.420e+05	-7399.75	-4.89e-03	0.0	0.0	-1904.74	849.35	249.88	-1.217e+04	-1.240e+04	1.250e+05
		1.250e+05	-1.240e+04	1.84e-03	0.0	20.0	-1834.74	849.35	249.88	-1.217e+04	-7399.75	1.420e+05
23	1	9.105e+04	7.893e+04	4.96e-03	3.08e-04	0.0	-4977.17	454.28	424.55	358.99	-3.570e+04	-3.160e+04
		-3.160e+04	-3.570e+04	-4.20e-03	1.67e-03	270.0	-3748.67	454.28	424.55	358.99	7.893e+04	9.105e+04
23	3	7.520e+04	7.896e+04	3.47e-03	3.08e-04	0.0	-4903.36	380.68	425.96	-414.86	-3.604e+04	-2.759e+04
		-2.759e+04	-3.604e+04	-4.28e-03	1.67e-03	270.0	-3674.86	380.68	425.96	-414.86	7.896e+04	7.520e+04
23	4	5.353e+04	4.813e+04	2.93e-03	0.0	0.0	-3211.65	266.96	259.96	216.22	-2.206e+04	-1.855e+04
		-1.855e+04	-2.206e+04	-2.63e-03	1.29e-03	270.0	-2266.66	266.96	259.96	216.22	4.813e+04	5.353e+04
23	11	2.333e+05	5.898e+04	0.08	0.0	0.0	-2631.42	-1118.12	334.58	-450.55	-3.135e+04	2.333e+05
		-6.856e+04	-3.135e+04	-4.43e-03	1.29e-03	270.0	-1686.42	-1118.12	334.58	-450.55	5.898e+04	-6.856e+04
23	12	1.530e+05	5.194e+04	-0.08	0.0	0.0	-4297.18	1554.29	266.45	-1009.88	-2.000e+04	-2.667e+05
		-2.667e+05	-2.000e+04	2.76e-03	1.29e-03	270.0	-3352.18	1554.29	266.45	-1009.88	5.194e+04	1.530e+05
23	15	3.489e+04	1.495e+05	7.14e-03	0.0	0.0	-4000.88	127.92	1325.98	-1490.65	-2.085e+05	351.73
		351.73	-2.085e+05	-0.07	1.29e-03	270.0	-3055.89	127.92	1325.98	-1490.65	1.495e+05	3.489e+04
23	16	4.938e+04	1.575e+05	-4.83e-03	0.0	0.0	-2923.93	306.26	-725.68	95.63	1.575e+05	-4.331e+04
		-3.331e+04	-4.331e+04	0.08	1.29e-03	270.0	-1978.93	306.26	-725.68	95.63	-3.847e+04	-3.938e+04
24	1	1.900e+04	8.025e+05	-1.67e-03	0.0	0.0	-1.239e+04	115.33	4439.71	-1169.95	-3.962e+05	-1.214e+04
		-1.214e+04	-3.962e+05	-0.05	0.0	270.0	-1.117e+04	115.33	4439.71	-1169.95	8.025e+05	1.900e+04
24	4	1.102e+04	4.708e+05	-8.89e-04	0.0	0.0	-7640.09	65.77	2605.05	-644.36	-2.325e+05	-6741.03
		-6741.03	-2.325e+05	-0.03	0.0	270.0	-6695.09	65.77	2605.05	-644.36	4.708e+05	1.102e+04
24	11	7373.98	1.746e+05	1.66e-03	0.0	0.0	-6344.08	25.73	422.06	2142.11	6.065e+04	425.90
		425.90	6.065e+04	0.08	0.0	270.0	-5399.08	25.73	422.06	2142.11	1.746e+05	7373.98
24	12	1.732e+04	3.711e+05	-2.78e-03	0.0	0.0	-6619.65	118.84	2591.64	-2792.55	-3.287e+05	-1.477e+04
		-1.477e+04	-3.287e+05	-0.08	0.0	270.0	-5674.65	118.84	2591.64	-2792.55	3.711e+05	1.732e+04
24	15	2.596e+05	2.698e+05	0.07	0.0	0.0	-6450.07	-1596.02	1470.77	-166.66	-1.278e+05	-1.732e+05
		-1.714e+05	-1.273e+05	-0.02	0.0	270.0	-5505.07	-1596.02	1470.77	-166.66	2.698e+05	-1.714e+05
24	16	1.965e+05	2.757e+05	-0.08	0.0	0.0	-6514.19	1744.69	1541.33	-493.42	-1.404e+05	-2.746e+05
		-2.746e+05	-1.404e+05	-0.02	0.0	270.0	-5569.19	1744.69	1541.33	-493.42	2.757e+05	1.965e+05
24	20	1.612e+04	3.717e+05	-2.30e-03	0.0	0.0	-6613.17	107.81	2590.87	-2567.70	-3.278e+05	-1.299e+04
		-1.299e+04	-3.278e+05	-0.08	0.0	270.0	-5668.17	107.81	2590.87	-2567.70	3.717e+05	1.612e+04
27	1	2.036e+05	8.703e+05	-0.01	0.0	0.0	-1.155e+04	1184.02	4655.21	5484.58	-3.866e+05	-1.161e+05
		-1.161e+05	-3.866e+05	-0.04	0.0	270.0	-1.033e+04	1184.02	4655.21	5484.58	8.703e+05	2.036e+05
27	3	2.045e+05	7.768e+05	-0.01	0.0	0.0	-1.076e+04	1172.61	4167.49	5254.90	-3.485e+05	-1.121e+05
		-1.121e+05	-3.485e+05	-0.04	0.0	270.0	-9530.07	1172.61	4167.49	5254.90	7.768e+05	2.045e+05
27	4	1.244e+05	4.808e+05	-8.31e-03	0.0	0.0	-6834.99	718.43	2570.28	3217.48	-2.132e+05	-6.962e+04
		-6.962e+04	-2.132e+05	-0.02	0.0	270.0	-5889.99	718.43	2570.28	3217.48	4.808e+05	1.244e+05
27	14	2.248e+05	4.937e+05	-0.07	0.0	0.0	-7314.85	1877.42	2822.35	5047.05	-2.683e+05	-2.821e+05
		-2.821e+05	-2.683e+05	-0.04	0.0	270.0	-6369.85	1877.42	2822.35	5047.05	4.937e+05	2.248e+05
27	15	1.315e+05	4.409e+05	0.07	0.0	0.0	-6596.86	-252.55	2223.40	1989.43	-1.594e+05	1.315e+05
		6.330e+04	-1.594e+05	0.03	0.0	270.0	-5651.86	-252.55	2223.40	1989.43	4.409e+05	6.330e+04
27	16	2.245e+05	4.906e+05	-0.07	0.0	0.0	-7320.45	1878.56	2793.72	4983.30	-2.637e+05	-2.827e+05
		-2.827e+05	-2.637e+05	-0.04	0.0	270.0	-6375.45	1878.56	2793.72	4983.30	4.906e+05	2.245e+05
27	18	1.120e+05	5.284e+05	0.03	0.0	0.0	-6908.86	339.22	3340.49	3807.86	-3.735e+05	2.038e+04
		2.038e+04	-3.735e+05	-0.07	0.0	270.0	-5963.86	339.22	3340.49	3807.86	5.284e+05	1.120e+05
29	1	1608.95	-8.000e+05	1.61e-05	0.0	0.0	-5677.32	29.27	-4358.81	1.494e+04	-8.000e+05	1023.65
		1023.65	-8.000e+05	-6.12e-03	0.0	20.0	-5545.69	29.27	-4358.81	1.494e+04	-8.872e+05	1608.95
29	2	1457.24	-6.792e+05	-2.04e-05	0.0	0.0	-4813.11	46.78	-3726.90	1.245e+04	-6.792e+05	521.54
		521.54	-6.792e+05	-5.36e-03	0.0	20.0	-4711.86	46.78	-3726.90	1.245e+04	-7.538e+05	1457.24
29	4	951.47	-4.729e+05	-5.25e-05	0.0	0.0	-3405.94	10.10	-2548.59	8733.91	-4.729e+05	749.45
		749.45	-5.238e+05	-3.57e-03	0.0	20.0	-3304.69	10.10	-2548.59	8733.91	-5.238e+05	951.47
29	5	2.564e+04	-2.883e+05	3.36e-03	0.0	0.0	-2121.11	-1304.74	-1297.49	3.438e+04	-2.883e+05	2.564e+04
		-450.35	-3.142e+05	-1.87e-03	0.0	20.0	-2019.86	-1304.74	-1297.49	3.438e+04	-3.142e+05	-450.35
29	6	1362.01	-2.788e+05	-3.47e-03	0.0	0.0	-2104.33	1269.57	-1688.57	-2.365e+04	-2.788e+05	-2.403e+04
		-2.403e+04	-3.125e+05	-1.94e-03	0.0	20.0	-2003.08	1269.57	-1688.57	-2.365e+04	-3.125e+05	1362.01
29	9	671.93	-3.555e+05	1.80e-06	0.0	0.0	-2296.43	128.25	-2561.09	-782.33	-3.555e+05	-1893.16
		-1893.16	-4.067e+05	7.74e-04	0.0	20.0	-2195.18	128.25	-2561.09	-782.33	-4.067e+05	671.93
29	10	3938.24	-2.119e+05	-1.18e-04	0.0	0.0	-1929.60	-184.86	-397.09	1.154e+04	-2.119e+05	3938.24
		241.02	-2.199e+05	-4.58e-03	0.0	20.0	-1828.35	-184.86	-397.09	1.154e+04	-2.199e+05	241.02
44	1	1420.00	7.266e+05	-1.86e-03	0.0	0.0	-5937.88	-430.92	3600.85	-1483.95	6.546e+05	1420.00
		-7198.53	6.546e+05	0.01	0.0	20.0	-5820.88	-430.92	3600.85	-1483.95	7.266e+05	-7198.53

44	3	3471.57	5.302e+05	-1.84e-03	0.0	0.0	-4437.51	-400.40	2646.62	-3112.35	4.773e+05	3471.57
		-4536.48	4.773e+05	9.99e-03	0.0	20.0	-4320.51	-400.40	2646.62	-3112.35	5.302e+05	-4536.48
44	4	1285.81	4.278e+05	-1.11e-03	0.0	0.0	-3552.03	-256.10	2120.28	-881.88	3.854e+05	1285.81
		-3836.22	3.854e+05	7.90e-03	0.0	20.0	-3462.03	-256.10	2120.28	-881.88	4.278e+05	-3836.22
44	5	1.574e+04	2.455e+05	3.53e-03	0.0	0.0	-2168.74	-842.88	1261.74	-1.403e+04	2.203e+05	1.574e+04
		-1114.22	2.203e+05	4.80e-03	0.0	20.0	-2078.74	-842.88	1261.74	-1.403e+04	2.455e+05	-1114.22
44	6	-1537.77	2.457e+05	-6.05e-03	0.0	0.0	-2169.18	313.16	1209.50	7686.80	2.215e+05	-7801.06
		-7801.06	2.215e+05	4.78e-03	0.0	20.0	-2079.18	313.16	1209.50	7686.80	2.457e+05	-1537.77
44	9	4098.42	1.287e+05	-1.31e-03	0.0	0.0	-1976.62	-265.17	807.16	-5538.59	1.125e+05	4098.42
		-1205.10	1.125e+05	0.01	0.0	20.0	-1886.62	-265.17	807.16	-5538.59	1.287e+05	-1205.10
44	10	3772.31	3.629e+05	-1.21e-03	0.0	0.0	-2361.95	-261.20	1674.14	-642.53	3.294e+05	3772.31
		-1451.83	3.294e+05	-8.15e-04	0.0	20.0	-2271.95	-261.20	1674.14	-642.53	3.629e+05	-1451.83
44	12	2215.32	3.634e+05	-1.54e-03	0.0	0.0	-2360.88	-182.43	1585.55	1826.84	3.317e+05	2215.32
		-1433.40	3.317e+05	-8.12e-04	0.0	20.0	-2270.88	-182.43	1585.55	1826.84	3.634e+05	-1433.40
44	19	5919.59	1.290e+05	-1.01e-03	0.0	0.0	-1983.59	-356.84	1017.88	-8030.65	1.087e+05	5919.59
		-1217.27	1.087e+05	0.01	0.0	20.0	-1893.59	-356.84	1017.88	-8030.65	1.290e+05	-1217.27
91	1	-2038.96	-1.221e+06	5.63e-05	0.0	0.0	-7290.08	39.90	-4357.09	-1972.44	-1.221e+06	-2837.06
		-2837.06	-1.309e+06	-0.01	0.0	20.0	-7158.45	39.90	-4357.09	-1972.44	-1.309e+06	-2038.96
91	4	-1102.21	-6.736e+05	9.84e-05	0.0	0.0	-4046.20	28.75	-2412.93	-1358.71	-6.736e+05	-1677.26
		-1677.26	-7.218e+05	-5.70e-03	0.0	20.0	-3944.95	28.75	-2412.93	-1358.71	-7.218e+05	-1102.21
91	5	5539.30	-6.714e+05	3.25e-03	0.0	0.0	-4083.51	-357.68	-2843.09	1.226e+04	-6.714e+05	5539.30
		-1614.35	-7.283e+05	-4.69e-03	0.0	20.0	-3982.26	-357.68	-2843.09	1.226e+04	-7.283e+05	-1614.35
91	6	-586.42	-6.575e+05	-2.82e-03	0.0	0.0	-4028.57	396.93	-1580.15	-1.376e+04	-6.575e+05	-8524.96
		-8524.96	-6.892e+05	-6.49e-03	0.0	20.0	-3927.32	396.93	-1580.15	-1.376e+04	-6.892e+05	-586.42
91	9	-1045.63	-6.904e+05	-1.38e-03	0.0	0.0	-4144.02	145.57	-4150.59	-4519.79	-6.904e+05	-3957.09
		-3957.09	-7.734e+05	-2.40e-03	0.0	20.0	-4042.77	145.57	-4150.59	-4519.79	-7.734e+05	-1045.63
91	10	960.50	-6.385e+05	1.80e-03	0.0	0.0	-3967.96	-105.58	-286.02	2924.23	-6.385e+05	960.50
		-1151.03	-6.442e+05	-8.77e-03	0.0	20.0	-3866.71	-105.58	-286.02	2924.23	-6.442e+05	-1151.03
91	17	-1045.11	-6.894e+05	-1.36e-03	0.0	0.0	-4140.38	144.63	-4204.54	-4602.88	-6.894e+05	-3937.69
		-3937.69	-7.735e+05	-2.37e-03	0.0	20.0	-4039.13	144.63	-4204.54	-4602.88	-7.735e+05	-1045.11
102	1	5.054e+05	1.886e+04	0.06	0.0	0.0	-1.052e+04	-4458.68	144.01	-2617.18	-2.722e+04	5.054e+05
		-9.214e+05	-2.722e+04	-6.59e-03	0.0	320.0	-8647.03	-4458.68	144.01	-2617.18	1.886e+04	-9.214e+05
102	4	2.963e+05	1.042e+04	0.04	0.0	0.0	-6930.06	-2614.48	80.84	-1520.31	-1.545e+04	2.963e+05
		-5.403e+05	-1.545e+04	-3.79e-03	0.0	320.0	-5490.06	-2614.48	80.84	-1520.31	1.042e+04	-5.403e+05
102	7	1.802e+05	2.000e+05	0.02	0.0	0.0	-5487.44	-1559.91	1412.27	722.99	-2.520e+05	1.802e+05
		-3.189e+05	-2.520e+05	-0.06	0.0	320.0	-4047.44	-1559.91	1412.27	722.99	2.000e+05	-3.189e+05
102	8	1.679e+05	2.256e+05	0.02	0.0	0.0	-5249.85	-1501.94	-1274.20	-2841.38	2.256e+05	1.679e+05
		-3.127e+05	-1.822e+05	0.05	0.0	320.0	-3809.85	-1501.94	-1274.20	-2841.38	-1.822e+05	-3.127e+05
102	11	4.051e+05	4940.96	0.09	0.0	0.0	-5538.25	-2607.56	-30.72	2587.75	4940.96	4.051e+05
		-4.293e+05	-4888.99	9.42e-04	0.0	320.0	-4098.25	-2607.56	-30.72	2587.75	-4888.99	-4.293e+05
102	12	-5.740e+04	2.213e+04	-0.07	0.0	0.0	-5197.75	-452.22	164.93	-4703.72	-3.065e+04	-5.740e+04
		-2.021e+05	-3.065e+04	-7.27e-03	0.0	320.0	-3757.75	-452.22	164.93	-4703.72	2.213e+04	-2.021e+05
103	1	4.723e+04	4.764e+05	-6.79e-03	0.0	0.0	-1.350e+04	297.40	-4027.58	-2586.85	4.764e+05	-4.499e+04
		-4.499e+04	-7.725e+05	0.05	0.0	310.1	-1.146e+04	297.40	-4027.58	-2586.85	-7.725e+05	4.723e+04
103	4	3.161e+04	2.622e+05	-3.94e-03	0.0	0.0	-8277.60	192.26	-2209.26	-1313.64	2.622e+05	-2.801e+04
		-2.801e+04	-4.229e+05	0.03	0.0	310.1	-6707.84	192.26	-2209.26	-1313.64	-4.229e+05	3.161e+04
103	5	2.389e+05	3.484e+05	0.05	0.0	0.0	-6874.85	-1182.49	-2657.29	2167.71	3.484e+05	2.389e+05
		-1.278e+05	-4.755e+05	0.04	0.0	310.1	-5305.09	-1182.49	-2657.29	2167.71	-4.755e+05	-1.278e+05
103	6	1.821e+05	1.244e+05	-0.06	0.0	0.0	-9916.58	1483.84	-1404.91	-5888.24	1.244e+05	-2.780e+05
		-2.780e+05	-3.112e+05	-7.33e-03	0.0	310.1	-8346.82	1483.84	-1404.91	-5888.24	-3.112e+05	-2.780e+05
103	7	2.419e+05	3.416e+05	0.05	0.0	0.0	-6909.03	-1208.56	-2617.21	6360.45	3.416e+05	2.419e+05
		-1.329e+05	-4.700e+05	0.04	0.0	310.1	-5339.27	-1208.56	-2617.21	6360.45	-4.700e+05	-1.329e+05
103	8	1.871e+05	1.313e+05	-0.06	0.0	0.0	-9882.76	1509.94	-1444.78	-1.006e+04	1.313e+05	-2.811e+05
		-2.811e+05	-3.167e+05	7.86e-03	0.0	310.1	-8312.99	1509.94	-1444.78	-1.006e+04	-3.167e+05	-2.811e+05
103	17	1.004e+05	5.737e+05	-0.03	0.0	0.0	-7359.10	797.78	-3858.71	-4603.38	5.737e+05	-1.470e+05
		-1.470e+05	-6.228e+05	0.08	0.0	310.1	-5789.34	797.78	-3858.71	-4603.38	-6.228e+05	1.004e+05
104	1	2.344e+04	3080.47	-0.03	0.0	0.0	-1786.78	354.97	40.04	-3096.34	-9334.20	-8.663e+04
		-8.663e+04	-9334.20	-2.68e-03	0.0	310.1	-27.17	354.97	40.04	-3096.34	3080.47	-2.68e+03
104	2	2.113e+04	2703.00	-0.02	0.0	0.0	-1409.14	278.18	41.25	-2374.58	-1.009e+04	-6.513e+04
		-6.513e+04	-1.009e+04	-3.00e-03	0.0	310.1	-13.80	278.18	41.25	-2374.58	2703.00	-3.00e-03
104	3	2.068e+04	2802.90	-0.03	0.0	0.0	-1942.02	300.54	25.08	-2550.44	-4974.46	-7.251e+04
		-7.251e+04	-4974.46	-1.24e-03	0.0	310.1	-128.07	300.54	25.08	-2550.44	2802.90	-2.068e+04
104	5	7.346e+04	1.556e+05	-0.04	0.0	0.0	-2073.67	625.53	-551.50	2526.49	1.556e+05	-1.205e+05
		-1.205e+05	-1.541e+04	0.05	0.0	310.1	-678.33	625.53	-551.50	2526.49	-1.541e+04	7.346e+04
104	6	4.038e+04	1.951e+04	7.48e-03	0.0	0.0	-1114.55	-286.50	569.94	-5261.67	-1.572e+05	4.038e+04
		-4.846e+04	-1.572e+05	-0.05	0.0	310.1	280.79	-286.50	569.94	-5261.67	1.951e+04	-4.846e+04
104	17	2.129e+05	8843.00	-0.08	0.0	0.0	-3241.13	1641.22	267.26	-4449.06	-7.403e+04	-2.960e+05
		-2.960e+05	-7.403e+04	-0.02	0.0	310.1	-1845.78	1641.22	267.26	-4449.06	8843.00	-2.129e+05
104	18	2.150e+05	7.237e+04	0.05	0.0	0.0	47.29	-1297.21	-248.95	1601.04	7.237e+04	2.150e+05
		-1.872e+05	-4825.13	0.02	0.0	310.1	1442.63	-1297.21	-248.95	1601.04	-4825.13	-1.872e+05
113	1	3943.78	3071.20	7.33e-03	6.38e-04	0.0	-5790.98	-5.48	34.06	433.67	-8145.55	3943.78
		2140.71	-8145.55	-7.19e-03	9.25e-04	329.3	-4667.20	-5.47	34.06	433.67	3071.20	2140.71
113	2	4085.08	2333.47	6.30e-03	4.91e-04	0.0	-3998.66	-11.15	24.99	332.14	-5895.88	4085.08
		414.10	-5895.88	-5.14e-03	7.11e-04	329.3	-3134.21	-11.15	24.99	332.14	2333.47	414.10
113	4	2288.09	2153.20	4.32e-03	4.91e-04	0.0	-3611.35	-2.90	21.14	245.20	-4809.24	2288.09
		1332.29	-4809.24	-4.06e-03	7.11e-04	329.3	-2746.90	-2.90	21.14	245.20	2153.20	1332.29
113	7	7244.08	1.010e+04	8.17e-03	4.91e-04	0.0	-3572.15	-32.39	256.35	3786.65	-7.432e+04	7244.08
		-3421.85	-7.432e+04	-0.08	7.11e-04	329.3	-2707.70	-32.39	256.35	3786.65	1.010e+04	-3421.85

113	8	8817.62	6.609e+04	-3.51e-03	4.91e-04	0.0	-3593.60	46.50	-218.98	-3471.71	6.609e+04	-6494.65
		-6494.65	-6018.59	0.07	7.11e-04	329.3	-2729.16	46.50	-218.97	-3471.71	-6018.59	8817.62
113	11	1.115e+05	1831.90	0.09	4.91e-04	0.0	-3371.80	-639.05	13.69	511.01	-2676.56	1.115e+05
		-9.890e+04	-2676.56	-1.93e-03	7.11e-04	329.3	-2507.35	-639.05	13.69	511.01	1831.90	-9.890e+04
113	12	1.045e+05	2224.57	-0.09	4.91e-04	0.0	-3794.20	654.25	23.60	-195.07	-5547.03	-1.110e+05
		-1.110e+05	-5547.03	-4.82e-03	7.11e-04	329.3	-2929.75	654.25	23.60	-195.07	2224.57	1.045e+05
153	1	3.421e+04	3.100e+05	5.49e-03	0.0	0.0	-1.211e+04	-218.79	-2554.58	-1874.65	3.100e+05	3.421e+04
		-3.363e+04	-4.821e+05	0.03	0.0	310.1	-1.007e+04	-218.79	-2554.58	-1874.65	-4.821e+05	-3.363e+04
153	4	2.130e+04	1.803e+05	3.10e-03	0.0	0.0	-7830.16	-143.31	-1486.08	-1045.93	1.803e+05	2.130e+04
		-2.314e+04	-2.805e+05	0.02	0.0	310.1	-6260.40	-143.31	-1486.08	-1045.93	-2.805e+05	-2.314e+04
153	7	3.047e+05	9.734e+04	0.06	0.0	0.0	-7276.77	-1604.76	-787.00	3506.64	9.734e+04	3.047e+05
		-1.929e+05	-1.467e+05	9.95e-03	0.0	310.1	-5707.01	-1604.76	-787.00	3506.64	-1.467e+05	-1.929e+05
153	8	1.477e+05	1.105e+05	-0.06	0.0	0.0	-5008.76	1325.41	-886.42	-5386.54	1.105e+05	-2.633e+05
		-2.633e+05	-1.644e+05	0.01	0.0	310.1	-3438.99	1325.41	-886.42	-5386.54	-1.644e+05	1.477e+05
153	11	1.836e+04	4.593e+05	2.51e-03	0.0	0.0	-4690.81	-127.88	-2826.30	1351.96	4.593e+05	1.836e+04
		-2.129e+04	-4.171e+05	0.08	0.0	310.1	-3121.05	-127.88	-2826.30	1351.96	-4.171e+05	-2.129e+04
153	12	2.200e+04	1.062e+05	3.27e-03	0.0	0.0	-7591.26	-146.60	1154.84	-3125.29	-2.519e+05	2.200e+04
		-2.345e+04	-2.519e+05	-0.06	0.0	310.1	-6021.50	-146.60	1154.84	-3125.29	1.062e+05	-2.345e+04
154	1	686.50	-299.66	8.82e-04	0.0	0.0	-318.53	-34.37	411.25	-0.92	-8524.59	686.50
		-0.86	-8524.59	-1.21e-03	-3.57e-04	20.0	-299.81	-34.37	411.25	-0.92	-299.66	-0.86
154	4	148.87	-175.56	5.69e-04	0.0	0.0	-181.40	-7.47	229.01	-0.54	-4755.80	148.87
		-0.51	-4755.80	-7.40e-04	-2.74e-04	20.0	-167.00	-7.47	229.01	-0.54	-175.56	-0.51
154	7	1780.84	-98.09	3.48e-03	0.0	0.0	-95.22	-89.06	111.19	-0.30	-2321.88	1780.84
		-0.28	-2321.88	-7.42e-04	-2.74e-04	20.0	-80.82	-89.06	111.19	-0.30	-98.09	-0.28
154	8	-0.30	-103.83	-2.51e-03	0.0	0.0	-93.13	123.17	57.51	-0.32	-1254.06	-2463.66
		-2463.66	-1254.06	-3.55e-04	-2.74e-04	20.0	-78.73	123.17	57.51	-0.32	-103.83	-0.30
154	19	-0.24	-53.87	1.46e-04	0.0	0.0	-91.41	111.68	-1.51	-0.26	-53.87	-2233.80
		-2233.80	-84.09	9.85e-04	-2.74e-04	20.0	-77.01	111.68	-1.51	-0.26	-84.09	-0.24
154	20	1699.00	-118.06	8.20e-04	0.0	0.0	-96.69	-84.97	164.22	-0.36	-3402.46	1699.00
		-0.34	-3402.46	-2.06e-03	-2.74e-04	20.0	-82.29	-84.97	164.22	-0.36	-118.06	-0.34
156	1	9.986e+04	-9571.90	0.02	0.0	0.0	-3270.58	-626.86	-26.26	1218.76	-9571.90	9.986e+04
		-1.007e+05	-1.797e+04	-6.59e-03	0.0	320.0	-1398.58	-626.86	-26.26	1218.76	-1.797e+04	-1.007e+05
156	2	7.947e+04	-6036.17	0.02	0.0	0.0	-2248.77	-488.91	-28.46	962.46	-6036.17	7.947e+04
		-7.699e+04	-1.514e+04	-4.82e-03	0.0	320.0	-808.77	-488.91	-28.46	962.46	-1.514e+04	-7.699e+04
156	3	7.976e+04	-6502.37	0.02	0.0	0.0	-3548.60	-514.84	-37.51	925.01	-6502.37	7.976e+04
		-8.499e+04	-1.851e+04	-5.57e-03	0.0	320.0	-1676.60	-514.84	-37.51	925.01	-1.851e+04	-8.499e+04
156	4	5.934e+04	-2953.15	0.01	0.0	0.0	-2526.68	-376.76	-39.79	670.26	-2953.15	5.934e+04
		-6.122e+04	-1.568e+04	-3.79e-03	0.0	320.0	-1086.68	-376.76	-39.79	670.26	-1.568e+04	-6.122e+04
156	7	4.132e+04	1.067e+05	8.11e-03	0.0	0.0	-2177.58	-284.36	980.99	7504.73	-2.072e+05	4.132e+04
		-4.968e+04	-2.072e+05	-0.06	0.0	320.0	-737.58	-284.36	980.99	7504.73	1.067e+05	-4.968e+04
156	8	4.377e+04	2.039e+05	9.51e-03	0.0	0.0	-3461.90	-285.43	-1066.40	-6411.60	2.039e+05	4.377e+04
		-4.757e+04	-1.374e+05	0.05	0.0	320.0	-2021.90	-285.43	-1066.40	-6411.60	-1.374e+05	-4.757e+04
156	9	2.826e+05	911.67	0.08	0.0	0.0	-4406.50	-1607.17	-51.76	2666.53	911.67	2.826e+05
		-2.317e+05	-1.565e+04	-2.39e-03	0.0	320.0	-2966.50	-1607.17	-51.76	2666.53	-1.565e+04	-2.317e+05
156	11	2.828e+05	1.415e+04	0.08	0.0	0.0	-4448.05	-1605.20	-119.07	4072.06	1.415e+04	2.828e+05
		-2.308e+05	-2.395e+04	1.54e-03	0.0	320.0	-3008.05	-1605.20	-119.07	4072.06	-2.395e+04	-2.308e+05
156	12	1.339e+05	-6859.29	-0.06	0.0	0.0	-1192.27	1037.35	31.48	-3160.81	-1.693e+04	-1.339e+05
		-1.981e+05	-1.693e+04	-7.33e-03	0.0	320.0	247.73	1037.35	31.48	-3160.81	-6859.29	1.339e+05
160	1	9967.40	1356.40	7.51e-03	1.31e-03	0.0	-5260.53	-60.15	34.06	490.09	-9515.40	9967.40
		-9230.87	-9515.40	-9.00e-03	1.90e-03	319.2	-4171.27	-60.14	34.06	490.09	1356.40	-9230.87
160	4	5836.82	831.98	4.42e-03	1.01e-03	0.0	-3293.61	-35.10	19.71	293.28	-5460.13	5836.82
		-5366.10	-5460.13	-5.14e-03	1.46e-03	319.2	-2455.71	-35.10	19.71	293.28	831.98	-5366.10
160	7	1.018e+04	4529.59	8.00e-03	1.01e-03	0.0	-3296.86	-59.87	292.57	3196.96	-8.886e+04	1.018e+04
		-8930.21	-8.886e+04	-0.09	1.46e-03	319.2	-2458.96	-59.87	292.58	3196.96	4529.59	-8930.21
160	8	3064.33	8.021e+04	-2.82e-03	1.01e-03	0.0	-3296.34	20.70	-260.81	-2713.71	8.021e+04	-3544.79
		-3544.79	-3041.63	0.08	1.46e-03	319.2	-2458.44	20.71	-260.81	-2713.71	-3041.63	3064.33
160	11	1.169e+05	632.27	0.09	1.01e-03	0.0	-3389.17	-685.57	12.91	278.70	-3490.27	1.169e+05
		-1.019e+05	-3490.27	-3.23e-03	1.46e-03	319.2	-2551.27	-685.57	12.92	278.70	632.27	-1.019e+05
160	12	9.621e+04	863.25	-0.09	1.01e-03	0.0	-3203.87	647.60	19.36	173.37	-5317.02	-1.105e+05
		-1.105e+05	-5317.02	-4.98e-03	1.46e-03	319.2	-2365.98	647.60	19.36	173.37	863.25	9.621e+04
161	1	1.075e+04	2416.45	7.63e-03	1.31e-03	0.0	-5290.30	-66.88	41.07	-428.65	-1.029e+04	1.075e+04
		-9932.55	-1.029e+04	-8.70e-03	1.90e-03	309.3	-4234.90	-66.87	41.07	-428.65	2416.45	-9932.55
161	4	6297.51	1433.37	4.49e-03	1.01e-03	0.0	-3305.05	-39.04	23.90	-232.36	-5959.59	6297.51
		-5776.53	-5959.59	-5.02e-03	1.46e-03	309.3	-2493.20	-39.04	23.90	-232.36	1433.37	-5776.53
161	7	1.058e+04	4746.65	7.73e-03	1.01e-03	0.0	-3300.20	-64.73	331.97	847.21	-9.792e+04	1.058e+04
		-9435.59	-9.792e+04	-0.09	1.46e-03	309.3	-2488.35	-64.73	331.97	847.21	4746.65	-9435.59
161	8	2210.51	8.881e+04	-2.41e-03	1.01e-03	0.0	-3315.64	16.67	-293.96	-1271.42	8.881e+04	-2945.49
		-2945.49	-2103.87	0.08	1.46e-03	309.3	-2503.79	16.67	-293.96	-1271.42	-2103.87	2210.51
161	11	1.237e+05	1223.03	0.09	1.01e-03	0.0	-3253.96	-747.08	18.55	24.23	-4513.04	1.237e+05
		-1.073e+05	-4513.04	-3.74e-03	1.46e-03	309.3	-2442.11	-747.08	18.55	24.23	1223.03	-1.073e+05
161	12	1.003e+05	1414.11	-0.09	1.01e-03	0.0	-3362.08	700.22	20.19	-397.44	-4831.63	-1.163e+05
		-1.163e+05	-4831.63	-3.96e-03	1.46e-03	309.3	-2550.23	700.22	20.20	-397.44	1414.11	1.003e+05
162	1	1.122e+04	7677.59	7.71e-03	2.25e-03	0.0	-5379.42	-70.68	52.80	-1746.96	-8118.57	1.122e+04
		-9929.55	-8118.57	-3.93e-03	1.02e-03	299.2	-4358.54	-70.68	52.80	-1746.96	7677.59	-9929.55
162	4	6596.02	4666.32	4.55e-03	1.73e-03	0.0	-3352.10	-41.51	31.86	-997.85	-4864.60	6596.02
		-5822.52	-4864.60	-2.32e-03	7.87e-04	299.2	-2566.80	-41.51	31.86	-997.85	4666.32	-5822.52
162	11	1.369e+05	5538.28	0.09	1.73e-03	0.0	-3807.65	-874.98	37.64	-384.13	-5721.77	1.369e+05
		-1.249e+05	-5721.77	-2.71e-03	7.87e-04	299.2	-3022.36	-874.98	37.64	-384.13	5538.28	-1.249e+05

162	12	1.194e+05	5041.09	-0.09	1.73e-03	0.0	-2835.57	832.97	27.35	-1102.68	-3140.67	-1.298e+05
		-1.298e+05	-3140.67	-8.69e-04	7.87e-04	299.2	-2050.28	832.98	27.35	-1102.68	5041.09	1.194e+05
162	15	1.299e+04	1.553e+04	8.89e-03	1.73e-03	0.0	-3359.29	-82.14	404.96	-656.84	-1.056e+05	1.299e+04
		-1.158e+04	-1.056e+05	-0.09	7.87e-04	299.2	-2573.99	-82.14	404.96	-656.84	1.553e+04	-1.158e+04
162	16	5898.63	9.703e+04	-3.48e-03	1.73e-03	0.0	-3284.62	38.94	-340.90	-842.23	9.703e+04	-5749.67
		-5749.67	-4952.42	0.08	7.87e-04	299.2	-2499.33	38.94	-340.90	-842.23	-4952.42	5898.63
170	1	157.38	4.585e+05	-2.66e-04	0.0	0.0	-9744.11	-7.51	-3887.33	-3496.57	4.585e+05	157.38
		-2170.57	-7.469e+05	0.04	0.0	310.1	-7703.42	-7.51	-3887.33	-3496.57	-7.469e+05	-2170.57
170	3	4037.87	3.456e+05	4.46e-04	0.0	0.0	-8335.98	-31.45	-2908.88	-3468.17	3.456e+05	4037.87
		-5714.82	-5.564e+05	0.03	0.0	310.1	-6295.29	-31.45	-2908.88	-3468.17	-5.564e+05	-5714.82
170	4	-298.83	2.654e+05	-2.15e-04	0.0	0.0	-6510.15	-1.82	-2253.39	-1774.47	2.654e+05	-298.83
		-862.75	-4.333e+05	0.03	0.0	310.1	-4940.38	-1.82	-2253.39	-1774.47	-4.333e+05	-862.75
170	7	3.323e+05	2.191e+05	0.06	0.0	0.0	-5156.56	-1963.92	-1643.37	1170.99	2.191e+05	3.323e+05
		-2.767e+05	-2.905e+05	0.03	0.0	310.1	-3586.80	-1963.92	-1643.37	1170.99	-2.905e+05	-2.767e+05
170	8	2.640e+05	1.161e+05	-0.06	0.0	0.0	-5279.16	1887.40	-1147.48	-5423.76	1.161e+05	-3.212e+05
		-3.212e+05	-2.397e+05	8.32e-03	0.0	310.1	-3709.40	1887.40	-1147.48	-5423.76	-2.397e+05	2.640e+05
170	9	5.759e+04	4.723e+05	-0.01	0.0	0.0	-4905.10	411.47	-2850.89	-4677.52	4.723e+05	-6.999e+04
		-6.999e+04	-4.117e+05	0.08	0.0	310.1	-3335.33	411.47	-2850.89	-4677.52	-4.117e+05	5.759e+04
170	17	5.596e+04	4.725e+05	-0.01	0.0	0.0	-4902.33	399.84	-2850.80	-4978.93	4.725e+05	-6.802e+04
		-6.802e+04	-4.114e+05	0.08	0.0	310.1	-3332.57	399.84	-2850.80	-4978.93	-4.114e+05	5.596e+04
170	18	7.793e+04	-1.185e+05	0.01	0.0	0.0	-5534.16	-469.49	61.36	567.77	-1.376e+05	7.793e+04
		-6.764e+04	-1.376e+05	-0.06	0.0	310.1	-3964.40	-469.49	61.36	567.77	-1.185e+05	-6.764e+04
171	1	1466.55	-7.974e+05	-6.14e-05	0.0	0.0	-5550.75	52.00	-4109.98	1790.30	-7.974e+05	426.61
		426.61	-8.796e+05	-9.48e-03	0.0	20.0	-5419.13	52.00	-4109.98	1790.30	-8.796e+05	1466.55
171	2	1357.58	-6.804e+05	-4.93e-05	0.0	0.0	-4705.82	75.05	-3429.46	-809.62	-6.804e+05	-143.41
		-143.41	-7.490e+05	-8.08e-03	0.0	20.0	-4604.57	75.05	-3429.46	-809.62	-7.490e+05	1357.58
171	4	906.44	-4.682e+05	-3.64e-05	0.0	0.0	-3327.97	39.80	-2391.51	459.40	-4.682e+05	110.49
		110.49	-5.161e+05	-5.53e-03	0.0	20.0	-3226.72	39.80	-2391.51	459.40	-5.161e+05	906.44
171	5	2.432e+04	-2.911e+05	1.74e-03	0.0	0.0	-2098.07	-1249.46	-1591.16	4.731e+04	-2.911e+05	2.432e+04
		-669.94	-3.230e+05	-2.46e-03	0.0	20.0	-1996.82	-1249.46	-1591.16	4.731e+04	-3.230e+05	-669.94
171	6	1573.35	-2.556e+05	-1.78e-03	0.0	0.0	-2027.99	1235.81	-1350.64	-4.247e+04	-2.556e+05	-2.314e+04
		-2.314e+04	-2.826e+05	-3.96e-03	0.0	20.0	-1926.74	1235.81	-1350.64	-4.247e+04	-2.826e+05	1573.35
171	9	798.39	-3.798e+05	-3.79e-04	0.0	0.0	-2297.67	201.54	-2478.30	-3529.90	-3.798e+05	-3232.44
		-3232.44	-4.293e+05	1.23e-03	0.0	20.0	-2196.42	201.54	-2478.30	-3529.90	-4.293e+05	798.39
171	10	4328.64	-1.669e+05	3.31e-04	0.0	0.0	-1828.22	-211.64	-464.62	8581.21	-1.669e+05	4328.64
		95.83	-1.762e+05	-7.65e-03	0.0	20.0	-1726.97	-211.64	-464.62	8581.21	-1.762e+05	95.83
171	17	785.88	-3.793e+05	-3.69e-04	0.0	0.0	-2295.38	196.74	-2511.23	-3425.05	-3.793e+05	-3148.98
		-3148.98	-4.295e+05	1.25e-03	0.0	20.0	-2194.13	196.74	-2511.23	-3425.05	-4.295e+05	785.88
188	1	-6.21e-03	-419.54	2.44e-04	0.0	0.0	-607.11	68.21	946.04	0.0	-1.934e+04	-1364.11
		-1364.11	-1.934e+04	-3.00e-03	-3.57e-04	20.0	-588.39	68.21	946.04	0.0	-419.54	-6.21e-03
188	4	-3.64e-03	-246.06	1.31e-04	0.0	0.0	-342.90	41.47	561.70	0.0	-1.148e+04	-829.33
		-829.33	-1.148e+04	-1.75e-03	-2.74e-04	20.0	-328.50	41.47	561.70	0.0	-246.06	-3.64e-03
188	7	5311.74	-142.57	3.71e-03	0.0	0.0	-175.07	-265.59	328.26	0.0	-6707.71	5311.74
		-2.11e-03	-6707.71	-9.44e-04	-2.74e-04	20.0	-160.67	-265.59	328.26	0.0	-142.57	-2.11e-03
188	8	-2.12e-03	-143.43	-3.34e-03	0.0	0.0	-176.14	252.51	367.89	0.0	-7501.22	-5050.13
		-5050.13	-7501.22	-9.39e-04	-2.74e-04	20.0	-161.74	252.51	367.89	0.0	-143.43	-2.12e-03
188	9	-2.19e-03	5147.00	-4.80e-05	0.0	0.0	-154.34	139.77	-264.74	0.0	5147.00	-2795.39
		-2795.39	-147.84	4.24e-04	-2.74e-04	20.0	-139.94	139.77	-264.74	0.0	-147.84	-2.19e-03
188	10	1853.25	-138.74	3.07e-04	0.0	0.0	-196.27	-92.66	944.07	0.0	-1.902e+04	1853.25
		-2.05e-03	-1.902e+04	-2.25e-03	-2.74e-04	20.0	-181.87	-92.66	944.07	0.0	-138.74	-2.05e-03
188	19	-2.17e-03	4893.86	-1.47e-04	0.0	0.0	-154.18	135.00	-252.01	0.0	4893.86	-2700.06
		-2700.06	-146.30	3.80e-04	-2.74e-04	20.0	-139.78	135.00	-252.01	0.0	-146.30	-2.17e-03
188	20	1926.37	-140.14	4.17e-04	0.0	0.0	-196.60	-96.32	935.88	0.0	-1.886e+04	1926.37
		-2.07e-03	-1.886e+04	-2.22e-03	-2.74e-04	20.0	-182.20	-96.32	935.88	0.0	-140.14	-2.07e-03
189	1	8.485e+04	3.489e+04	0.02	0.0	0.0	-4431.17	-703.85	189.26	-3988.43	-2.567e+04	8.485e+04
		-1.404e+05	-2.567e+04	-7.32e-03	0.0	320.0	-2975.17	-703.85	189.26	-3988.43	3.489e+04	-1.404e+05
189	4	4.989e+04	2.444e+04	8.87e-03	0.0	0.0	-3034.72	-413.77	129.17	-2291.71	-1.689e+04	4.989e+04
		-8.251e+04	-1.689e+04	-4.45e-03	0.0	320.0	-1914.72	-413.77	129.17	-2291.71	2.444e+04	-8.251e+04
189	7	4.947e+04	1.027e+05	0.01	0.0	0.0	-3649.35	-372.47	709.33	2360.48	-1.242e+05	4.947e+04
		-6.972e+04	-1.242e+05	-0.06	0.0	320.0	-2529.35	-372.47	709.33	2360.48	1.027e+05	-6.972e+04
189	8	2.442e+04	9.376e+04	2.89e-03	0.0	0.0	-2468.31	-253.11	-472.98	-4940.29	9.376e+04	2.442e+04
		-5.658e+04	-5.759e+04	0.05	0.0	320.0	-1348.31	-253.11	-472.98	-4940.29	-5.759e+04	-5.658e+04
189	11	2.237e+05	1.509e+04	0.09	0.0	0.0	-3563.31	-1170.44	66.47	-304.34	-6186.16	2.237e+05
		-1.508e+05	-6186.16	8.91e-04	0.0	320.0	-2443.31	-1170.44	66.47	-304.34	1.509e+04	-1.508e+05
190	1	-4.300e+04	-3244.01	-3.11e-03	0.0	0.0	-2065.85	-551.75	268.63	1.882e+04	-3244.01	-5.404e+04
		-5.404e+04	-8616.54	5.91e-04	0.0	20.0	-1974.85	-551.75	268.63	1.882e+04	-8616.54	-5.404e+04
190	2	-2.319e+04	-2452.34	-2.32e-03	0.0	0.0	-1356.45	-417.28	212.30	1.565e+04	-2452.34	-3.154e+04
		-3.154e+04	-6698.39	4.83e-04	0.0	20.0	-1286.45	-417.28	212.30	1.565e+04	-6698.39	-3.154e+04
190	3	-4.520e+04	-3102.56	-2.63e-03	0.0	0.0	-1943.80	-458.70	229.09	1.437e+04	-3102.56	-5.438e+04
		-5.438e+04	-7684.45	6.02e-04	0.0	20.0	-1852.80	-458.70	229.09	1.437e+04	-7684.45	-5.438e+04
190	4	-2.539e+04	-2311.51	-1.83e-03	0.0	0.0	-1234.44	-324.31	172.71	1.120e+04	-2311.51	-3.188e+04
		-3.188e+04	-5765.61	4.94e-04	0.0	20.0	-1164.44	-324.31	172.71	1.120e+04	-5765.61	-3.188e+04
190	7	-3.787e+04	-1.526e+04	-1.21e-03	0.0	0.0	-1306.44	-248.27	643.36	2.760e+04	-1.526e+04	-4.284e+04
		-4.284e+04	-2.813e+04	-1.72e-03	0.0	20.0	-1236.44	-248.27	643.36	2.760e+04	-2.813e+04	-4.284e+04
190	8	-2.734e+04	1.822e+04	-1.82e-03	0.0	0.0	-1245.20	-273.16	-369.27	-1.396e+04	1.822e+04	-2.734e+04
		-3.281e+04	1.084e+04	2.69e-03	0.0	20.0	-1175.20	-273.16	-369.27	-1.396e+04	1.084e+04	-3.281e+04
190	11	-1.175e+05	-2108.91	3.64e-03	0.0	0.0	-1824.88	-658.75	138.58	8051.45	-2108.91	-1.175e+05
		-1.307e+05	-4880.59	5.98e-04	0.0	20.0	-1754.88	-658.75	138.58	8051.45	-4880.59	-1.307e+05

190	12	5.522e+04	-2310.08	-6.67e-03	0.0	0.0	-725.91	140.27	139.27	6096.09	-5095.45	5.242e+04
		5.242e+04	-5095.45	3.78e-04	0.0	20.0	-655.91	140.27	139.27	6096.09	-2310.08	5.522e+04
191	1	-1.136e+06	-963.32	-0.02	0.0	0.0	-6682.36	-4705.82	70.83	7633.22	-2379.96	-1.136e+06
		-1.230e+06	-2379.96	-2.91e-04	0.0	20.0	-6565.36	-4705.82	70.83	7633.22	-963.32	-1.230e+06
191	4	-6.659e+05	-518.53	-0.01	0.0	0.0	-3968.55	-2761.45	31.92	4220.73	-1156.88	-6.659e+05
		-7.211e+05	-1156.88	-1.74e-04	0.0	20.0	-3878.55	-2761.45	31.92	4220.73	-518.53	-7.211e+05
191	5	-3.873e+05	-11.17	-6.79e-03	0.0	0.0	-2388.23	-1615.12	605.32	2.425e+04	-1.212e+04	-3.873e+05
		-4.196e+05	-1.212e+04	-1.82e-03	0.0	20.0	-2298.23	-1615.12	605.32	2.425e+04	-11.17	-4.196e+05
191	6	-3.821e+05	1.096e+04	-7.00e-03	0.0	0.0	-2379.84	-1606.51	-558.51	-1.884e+04	1.096e+04	-3.821e+05
		-4.143e+05	-210.00	1.52e-03	0.0	20.0	-2289.84	-1606.51	-558.51	-1.884e+04	-210.00	-4.143e+05
191	11	-4.842e+05	955.57	-2.13e-03	0.0	0.0	-2554.33	-2136.82	-63.19	-1860.73	955.57	-4.842e+05
		-5.269e+05	-308.16	9.29e-06	0.0	20.0	-2464.33	-2136.82	-63.19	-1860.73	-308.16	-5.269e+05
191	12	-2.851e+05	18.19	-0.01	0.0	0.0	-2213.55	-1086.47	109.25	7281.67	-2166.90	-2.851e+05
		-3.068e+05	-2166.90	-3.00e-04	0.0	20.0	-2123.55	-1086.47	109.25	7281.67	18.19	-3.068e+05
192	1	1839.86	1.018e+06	2.90e-04	0.0	0.0	-6706.95	178.48	4717.79	-1035.80	9.240e+05	-1729.80
		-1729.80	9.240e+05	0.03	0.0	20.0	-6615.95	178.48	4717.79	-1035.80	1.018e+06	1839.86
192	3	1219.55	7.442e+05	2.99e-04	0.0	0.0	-4987.69	182.36	3453.41	-648.05	6.751e+05	-2427.67
		-2427.67	6.751e+05	0.02	0.0	20.0	-4896.69	182.36	3453.41	-648.05	7.442e+05	1219.55
192	4	1001.16	5.974e+05	1.80e-04	0.0	0.0	-3990.37	111.28	2768.57	-465.11	5.420e+05	-1224.40
		-1224.40	5.420e+05	0.02	0.0	20.0	-3920.37	111.28	2768.57	-465.11	5.974e+05	1001.16
192	5	1.400e+04	3.425e+05	4.00e-03	0.0	0.0	-2404.47	-655.69	1594.26	-1.552e+04	3.106e+05	1.400e+04
		888.99	3.106e+05	9.71e-03	0.0	20.0	-2334.47	-655.69	1594.26	-1.552e+04	3.425e+05	888.99
192	6	-118.40	3.471e+05	-3.58e-03	0.0	0.0	-2411.88	932.80	1614.30	1.571e+04	3.148e+05	-1.877e+04
		-1.877e+04	3.148e+05	9.44e-03	0.0	20.0	-2341.88	932.80	1614.30	1.571e+04	3.471e+05	-118.40
192	11	576.22	2.412e+05	3.57e-04	0.0	0.0	-2264.57	18.58	1443.30	-4983.20	2.124e+05	204.71
		204.71	2.124e+05	0.01	0.0	20.0	-2194.57	18.58	1443.30	-4983.20	2.412e+05	576.22
192	12	220.53	4.485e+05	7.41e-05	0.0	0.0	-2552.21	247.84	1767.48	4946.43	4.132e+05	-4736.34
		-4736.34	4.132e+05	4.21e-03	0.0	20.0	-2482.21	247.84	1767.48	4946.43	4.485e+05	220.53
192	19	569.91	2.428e+05	3.29e-04	0.0	0.0	-2270.75	28.35	1554.65	-4626.47	2.117e+05	2.96
		2.96	2.117e+05	0.01	0.0	20.0	-2200.75	28.35	1554.65	-4626.47	2.428e+05	569.91
193	1	-1834.62	9.741e+05	3.84e-03	0.0	0.0	-7181.95	1003.34	4597.00	2.070e+04	8.822e+05	-2.190e+04
		-2.190e+04	8.822e+05	0.03	0.0	20.0	-7090.95	1003.34	4597.00	2.070e+04	9.741e+05	-1834.62
193	4	-1046.70	5.357e+05	2.41e-03	0.0	0.0	-3982.85	585.65	2533.33	1.211e+04	4.851e+05	-1.276e+04
		-1.276e+04	4.851e+05	0.02	0.0	20.0	-3912.85	585.65	2533.33	1.211e+04	5.357e+05	-1046.70
193	7	-725.16	5.033e+05	8.74e-03	0.0	0.0	-3801.44	61.43	2371.69	1418.99	4.559e+05	-1953.78
		-1953.78	4.559e+05	0.02	0.0	20.0	-3731.44	61.43	2371.69	1418.99	5.033e+05	-725.16
193	8	-1345.96	5.414e+05	-2.66e-03	0.0	0.0	-3854.39	1105.04	2558.21	2.227e+04	4.902e+05	-2.345e+04
		-2.345e+04	4.902e+05	0.02	0.0	20.0	-3784.39	1105.04	2558.21	2.227e+04	5.414e+05	-1345.96
193	9	-1087.44	4.582e+05	1.22e-04	0.0	0.0	-3743.46	780.35	2427.21	1.554e+04	4.097e+05	-1.669e+04
		-1.669e+04	4.097e+05	0.02	0.0	20.0	-3673.46	780.35	2427.21	1.554e+04	4.582e+05	-1087.44
193	10	-1002.36	5.862e+05	5.94e-03	0.0	0.0	-3911.56	410.26	2499.38	8673.68	5.362e+05	-9207.61
		-9207.61	5.362e+05	0.01	0.0	20.0	-3841.56	410.26	2499.38	8673.68	5.862e+05	-1002.36
193	17	-1076.03	4.577e+05	5.04e-05	0.0	0.0	-3745.34	771.06	2499.80	1.533e+04	4.077e+05	-1.650e+04
		-1.650e+04	4.077e+05	0.02	0.0	20.0	-3675.34	771.06	2499.80	1.533e+04	4.577e+05	-1076.03
193	18	-1013.90	5.866e+05	6.01e-03	0.0	0.0	-3909.66	419.77	2426.64	8884.64	5.381e+05	-9409.34
		-9409.34	5.381e+05	0.01	0.0	20.0	-3839.66	419.77	2426.64	8884.64	5.866e+05	-1013.90
194	1	1.492e+05	7.923e+05	-5.70e-03	0.0	0.0	-1.498e+04	822.44	4049.79	-2167.35	-3.012e+05	-7.283e+04
		-7.283e+04	-3.012e+05	0.02	0.0	270.0	-1.340e+04	822.44	4049.79	-2167.35	7.923e+05	1.492e+05
194	4	8.662e+04	4.631e+05	-3.24e-03	0.0	0.0	-9249.37	475.66	2372.28	-1185.58	-1.774e+05	-4.181e+04
		-4.181e+04	-1.774e+05	0.01	0.0	270.0	-8034.37	475.66	2372.28	-1185.58	4.631e+05	8.662e+04
194	9	5.952e+04	2.410e+05	-3.52e-03	0.0	0.0	-7983.87	351.47	-312.09	-3410.13	2.410e+05	-3.538e+04
		-3.538e+04	1.567e+05	0.08	0.0	270.0	-6768.87	351.47	-312.09	-3410.13	1.567e+05	5.952e+04
194	10	3.810e+04	4.217e+05	2.42e-03	0.0	0.0	-8617.73	180.94	3231.77	632.35	-4.509e+05	-1.075e+04
		-1.075e+04	4.509e+05	-0.07	0.0	270.0	-7402.73	180.94	3231.77	632.35	4.217e+05	3.810e+04
194	15	2.806e+05	3.038e+05	0.08	0.0	0.0	-8292.78	-1431.37	1611.96	-761.96	-1.314e+05	2.806e+05
		-1.059e+05	-1.314e+05	-7.44e-03	0.0	270.0	-7077.78	-1431.37	1611.96	-761.96	3.038e+05	-1.059e+05
194	16	2.039e+05	2.744e+05	-0.08	0.0	0.0	-8308.62	1966.34	1304.94	-1978.55	-7.791e+04	-3.270e+05
		-3.270e+05	-7.791e+04	0.01	0.0	270.0	-7093.62	1966.34	1304.94	-1978.55	2.744e+05	2.039e+05
194	18	3.685e+04	4.250e+05	3.10e-03	0.0	0.0	-8613.92	166.38	3257.91	878.31	-4.546e+05	-8073.01
		-8073.01	-4.546e+05	-0.07	0.0	270.0	-7398.92	166.38	3257.91	878.31	4.250e+05	3.685e+04
195	1	4.109e+04	7.292e+05	2.85e-03	0.0	0.0	-1.309e+04	-501.19	3778.22	-8775.90	-2.909e+05	4.109e+04
		-9.423e+04	-2.909e+05	-0.01	0.0	270.0	-1.151e+04	-501.19	3778.22	-8775.90	7.292e+05	-9.423e+04
195	3	4.200e+04	5.394e+05	2.98e-03	0.0	0.0	-1.158e+04	-505.91	2787.56	-7063.56	-2.132e+05	4.200e+04
		-9.459e+04	-2.132e+05	-0.01	0.0	270.0	-1.000e+04	-505.91	2787.56	-7063.56	5.394e+05	-9.459e+04
195	4	2.555e+04	4.295e+05	1.82e-03	0.0	0.0	-8143.32	-307.03	2227.61	-5092.41	-1.720e+05	2.555e+04
		-5.735e+04	-1.720e+05	-8.83e-03	0.0	270.0	-6928.32	-307.03	2227.61	-5092.41	4.295e+05	-5.735e+04
195	15	3.454e+05	2.627e+05	0.07	0.0	0.0	-7002.59	-2182.42	1359.31	-3198.22	-1.043e+05	3.454e+05
		-2.439e+05	-1.043e+05	-5.29e-03	0.0	270.0	-5787.59	-2182.42	1359.31	-3198.22	2.627e+05	-2.439e+05
195	16	1.115e+05	2.496e+05	-0.08	0.0	0.0	-7528.91	1470.00	1274.27	-4413.36	-9.445e+04	-2.854e+05
		-2.854e+05	-9.445e+04	5.97e-03	0.0	270.0	-6313.91	1470.00	1274.27	-4413.36	2.496e+05	1.115e+05
195	20	2.665e+04	3.701e+05	-2.10e-03	0.0	0.0	-7495.56	-355.61	2915.08	-7510.09	-4.170e+05	2.665e+04
		-6.936e+04	-4.170e+05	-0.06	0.0	270.0	-6280.56	-355.61	2915.08	-7510.09	3.701e+05	-6.936e+04
196	1	1.622e+05	7.783e+05	3.04e-03	0.0	0.0	-6600.43	890.12	4074.56	-2532.09	6.968e+05	1.444e+05
		1.444e+05	6.968e+05	0.01	0.0	20.0	-6483.43	890.12	4074.56	-2532.09	7.783e+05	1.622e+05
196	4	9.495e+04	4.553e+05	1.78e-03	0.0	0.0	-3912.75	516.37	2381.31	-1448.42	4.077e+05	8.462e+04
		8.462e+04	4.077e+05	8.72e-03	0.0	20.0	-3822.75	516.37	2381.31	-1448.42	4.553e+05	9.495e+04
196	9	2.526e+04	1.217e+05	8.61e-04	0.0	0.0	-2094.82	507.22	1086.32	1559.74	9.993e+04	1.511e+04
		1.511e+04	9.993e+04	0.01	0.0	20.0	-2004.82	507.22	1086.32	1559.74	1.217e+05	2.526e+04

196	10	7.945e+04	3.794e+05	1.18e-03	0.0	0.0	-2554.91	76.26	1803.22	-5129.25	3.433e+05	7.793e+04
		7.793e+04	3.433e+05	-3.42e-04	0.0	20.0	-2464.91	76.26	1803.22	-5129.25	3.794e+05	7.945e+04
196	17	2.523e+04	1.215e+05	8.07e-04	0.0	0.0	-2099.44	526.88	1219.51	1440.79	9.711e+04	1.469e+04
		1.469e+04	9.711e+04	0.01	0.0	20.0	-2009.44	526.88	1219.51	1440.79	1.215e+05	2.523e+04
196	18	7.948e+04	3.796e+05	1.23e-03	0.0	0.0	-2550.32	55.07	1670.39	-5004.92	3.462e+05	7.838e+04
		7.838e+04	3.462e+05	-3.41e-04	0.0	20.0	-2460.32	55.07	1670.39	-5004.92	3.796e+05	7.948e+04
Pilas.		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3		N	V 2	V 3	T		
		-1.230e+06	-1.309e+06	-0.09	-3.57e-04		-1.498e+04	-4705.82	-4358.81	-4.247e+04		
		5.054e+05	1.018e+06	0.09	2.25e-03		1442.63	1966.34	4717.79	4.731e+04		

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	4249.57	0.0	0.0	-45.48	0.0	0.33	22.74	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	747.6	-0.33	-22.74	0.0	0.0	0.0	0.0
1	3	4249.57	0.0	0.0	-45.48	0.0	0.33	22.74	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	747.6	-0.33	-22.74	0.0	0.0	0.0	0.0
1	14	3268.90	0.0	0.0	-34.98	0.0	134.54	17.49	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	747.6	134.03	-17.49	0.0	0.0	0.0	0.0
1	20	3268.90	0.0	0.0	-34.98	0.0	0.24	17.49	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	747.6	-0.26	-17.49	0.0	0.0	0.0	0.0
2	1	4224.72	0.0	0.0	-45.34	0.0	112.85	22.67	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	745.4	113.49	-22.67	0.0	0.0	0.0	0.0
2	4	3249.78	0.0	0.0	-34.88	0.0	66.06	17.44	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	745.4	66.56	-17.44	0.0	0.0	0.0	0.0
2	14	3249.78	0.0	0.0	-34.88	0.0	-0.26	17.44	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	745.4	0.24	-17.44	0.0	0.0	0.0	0.0
2	15	3249.78	0.0	0.0	-34.88	0.0	146.44	17.44	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	745.4	146.93	-17.44	0.0	0.0	0.0	0.0
3	1	4239.66	0.0	0.0	-45.42	0.0	0.32	22.71	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.7	-0.33	-22.71	0.0	0.0	0.0	0.0
3	3	4239.66	0.0	0.0	-45.42	0.0	0.32	22.71	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.7	-0.33	-22.71	0.0	0.0	0.0	0.0
3	8	3261.28	0.0	0.0	-34.94	0.0	0.24	17.47	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.7	-0.26	-17.47	0.0	0.0	0.0	0.0
3	11	3261.28	0.0	0.0	-34.94	0.0	56.24	17.47	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.7	55.74	-17.47	0.0	0.0	0.0	0.0
4	1	4234.83	0.0	0.0	-45.40	0.0	-0.33	22.70	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.3	0.32	-22.70	0.0	0.0	0.0	0.0
4	3	4234.83	0.0	0.0	-45.40	0.0	-0.34	22.70	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.3	0.32	-22.70	0.0	0.0	0.0	0.0
4	6	3257.56	0.0	0.0	-34.92	0.0	105.11	17.46	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.3	105.61	-17.46	0.0	0.0	0.0	0.0
4	23	3257.56	0.0	0.0	-34.92	0.0	-0.26	17.46	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.3	0.24	-17.46	0.0	0.0	0.0	0.0
5	1	4237.20	0.0	0.0	-45.41	0.0	0.32	22.71	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.5	-0.34	-22.71	0.0	0.0	0.0	0.0
5	3	4237.20	0.0	0.0	-45.41	0.0	2.65	22.71	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.5	2.00	-22.71	0.0	0.0	0.0	0.0
5	5	3259.39	0.0	0.0	-34.93	0.0	148.76	17.47	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.5	148.25	-17.47	0.0	0.0	0.0	0.0
5	10	3259.39	0.0	0.0	-34.93	0.0	0.24	17.47	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	746.5	-0.26	-17.47	0.0	0.0	0.0	0.0
6	1	4229.76	0.0	0.0	-45.37	0.0	38.17	22.69	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	745.8	38.81	-22.69	0.0	0.0	0.0	0.0
6	4	3253.66	0.0	0.0	-34.90	0.0	23.02	17.45	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	745.8	23.52	-17.45	0.0	0.0	0.0	0.0
6	12	3253.66	0.0	0.0	-34.90	0.0	81.56	17.45	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	745.8	82.06	-17.45	0.0	0.0	0.0	0.0
6	19	3253.66	0.0	0.0	-34.90	0.0	-0.26	17.45	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	745.8	0.24	-17.45	0.0	0.0	0.0	0.0
7	1	4244.61	0.0	0.0	-45.45	0.0	0.32	22.73	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	747.1	-0.34	-22.73	0.0	0.0	0.0	0.0
7	3	4244.61	0.0	0.0	-45.45	0.0	0.32	22.73	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	747.1	-0.34	-22.73	0.0	0.0	0.0	0.0
7	11	3265.08	0.0	0.0	-34.96	0.0	51.99	17.48	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	747.1	51.49	-17.48	0.0	0.0	0.0	0.0
7	29	3265.08	0.0	0.0	-34.96	0.0	0.24	17.48	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	747.1	-0.26	-17.48	0.0	0.0	0.0	0.0
8	1	4389.91	0.0	0.0	-46.22	0.0	107.95	23.11	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	759.8	108.59	-23.11	0.0	0.0	0.0	0.0
8	4	3376.86	0.0	0.0	-35.56	0.0	62.29	17.78	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	759.8	62.78	-17.78	0.0	0.0	0.0	0.0
8	15	3376.86	0.0	0.0	-35.56	0.0	252.88	17.78	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	759.8	253.37	-17.78	0.0	0.0	0.0	0.0
8	30	3376.86	0.0	0.0	-35.56	0.0	-0.26	17.78	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	759.8	0.24	-17.78	0.0	0.0	0.0	0.0

9	1	1455.76	0.0	0.0	-26.61	0.0	0.31	13.31	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	437.6	-0.34	-13.31	0.0	0.0	0.0	0.0
9	3	1455.76	0.0	0.0	-26.61	0.0	0.31	13.31	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	437.6	-0.33	-13.31	0.0	0.0	0.0	0.0
9	7	1119.82	0.0	0.0	-20.47	0.0	0.24	10.24	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	437.6	-0.26	-10.24	0.0	0.0	0.0	0.0
9	14	1119.82	0.0	0.0	-20.47	0.0	65.70	10.24	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	437.6	65.20	-10.24	0.0	0.0	0.0	0.0
10	1	1775.14	0.0	0.0	-29.39	0.0	-0.33	14.70	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	483.2	0.32	-14.70	0.0	0.0	0.0	0.0
10	3	1775.14	0.0	0.0	-29.39	0.0	-0.33	14.70	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	483.2	0.32	-14.70	0.0	0.0	0.0	0.0
10	6	1365.50	0.0	0.0	-22.61	0.0	63.59	11.30	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	483.2	64.09	-11.30	0.0	0.0	0.0	0.0
10	35	1365.50	0.0	0.0	-22.61	0.0	-0.26	11.30	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	483.2	0.24	-11.30	0.0	0.0	0.0	0.0
11	1	2169.60	0.0	0.0	-32.49	0.0	0.32	16.25	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	534.2	-0.33	-16.25	0.0	0.0	0.0	0.0
11	3	2169.60	0.0	0.0	-32.49	0.0	0.32	16.25	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	534.2	-0.33	-16.25	0.0	0.0	0.0	0.0
11	7	1668.93	0.0	0.0	-24.99	0.0	147.79	12.50	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	534.2	147.28	-12.50	0.0	0.0	0.0	0.0
11	9	1668.93	0.0	0.0	-24.99	0.0	0.24	12.50	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	534.2	-0.26	-12.50	0.0	0.0	0.0	0.0
12	1	2156.80	0.0	0.0	-32.40	0.0	-0.33	16.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	532.6	0.32	-16.20	0.0	0.0	0.0	0.0
12	3	2156.80	0.0	0.0	-32.40	0.0	-0.34	16.20	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	532.6	0.32	-16.20	0.0	0.0	0.0	0.0
12	6	1659.08	0.0	0.0	-24.92	0.0	128.53	12.46	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	532.6	129.04	-12.46	0.0	0.0	0.0	0.0
12	7	1659.08	0.0	0.0	-24.92	0.0	-0.26	12.46	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	532.6	0.24	-12.46	0.0	0.0	0.0	0.0
13	1	1781.50	0.0	0.0	-29.44	0.0	0.32	14.72	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	484.1	-0.33	-14.72	0.0	0.0	0.0	0.0
13	3	1781.50	0.0	0.0	-29.44	0.0	0.32	14.72	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	484.1	-0.33	-14.72	0.0	0.0	0.0	0.0
13	7	1370.38	0.0	0.0	-22.65	0.0	29.17	11.32	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	484.1	28.67	-11.32	0.0	0.0	0.0	0.0
13	12	1370.38	0.0	0.0	-22.65	0.0	0.24	11.32	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	484.1	-0.26	-11.32	0.0	0.0	0.0	0.0
14	2	1115.65	0.0	0.0	-20.43	0.0	15.81	10.22	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	436.8	16.31	-10.22	0.0	0.0	0.0	0.0
14	3	1450.35	0.0	0.0	-26.57	0.0	39.71	13.28	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	436.8	40.36	-13.28	0.0	0.0	0.0	0.0
14	10	1115.65	0.0	0.0	-20.43	0.0	-0.26	10.22	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	436.8	0.24	-10.22	0.0	0.0	0.0	0.0
14	15	1115.65	0.0	0.0	-20.43	0.0	160.50	10.22	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	436.8	161.00	-10.22	0.0	0.0	0.0	0.0
15	1	1538.96	0.0	0.0	-27.36	0.0	0.34	13.68	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	449.9	-0.35	-13.68	0.0	0.0	0.0	0.0
15	3	1538.96	0.0	0.0	-27.36	0.0	0.34	13.68	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	449.9	-0.35	-13.68	0.0	0.0	0.0	0.0
15	10	1183.81	0.0	0.0	-21.05	0.0	0.25	10.52	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	449.9	-0.28	-10.52	0.0	0.0	0.0	0.0
15	14	1183.81	0.0	0.0	-21.05	0.0	60.96	10.52	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	449.9	60.43	-10.52	0.0	0.0	0.0	0.0
16	1	1891.29	0.0	0.0	-30.34	0.0	74.42	15.17	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	498.7	75.03	-15.17	0.0	0.0	0.0	0.0
16	4	1454.84	0.0	0.0	-23.34	0.0	39.15	11.67	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	498.7	39.62	-11.67	0.0	0.0	0.0	0.0
16	8	1454.84	0.0	0.0	-23.34	0.0	115.78	11.67	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	498.7	116.25	-11.67	0.0	0.0	0.0	0.0
16	15	1454.84	0.0	0.0	-23.34	0.0	-0.24	11.67	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	498.7	0.22	-11.67	0.0	0.0	0.0	0.0
17	1	2287.21	0.0	0.0	-33.36	0.0	0.32	16.68	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	548.5	-0.34	-16.68	0.0	0.0	0.0	0.0
17	3	2287.21	0.0	0.0	-33.36	0.0	0.32	16.68	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	548.5	-0.34	-16.68	0.0	0.0	0.0	0.0
17	16	1759.39	0.0	0.0	-25.66	0.0	0.24	12.83	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	548.5	-0.26	-12.83	0.0	0.0	0.0	0.0
17	35	1759.39	0.0	0.0	-25.66	0.0	0.25	12.83	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	548.5	-0.26	-12.83	0.0	0.0	0.0	0.0
18	1	2293.68	0.0	0.0	-33.41	0.0	100.33	16.70	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	549.2	101.00	-16.70	0.0	0.0	0.0	0.0
18	4	1764.37	0.0	0.0	-25.70	0.0	54.54	12.85	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	549.2	55.06	-12.85	0.0	0.0	0.0	0.0
18	8	1764.37	0.0	0.0	-25.70	0.0	212.80	12.85	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	549.2	213.31	-12.85	0.0	0.0	0.0	0.0

18	18	1764.37	0.0	0.0	-25.70	0.0	-0.27	12.85	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	549.2	0.25	-12.85	0.0	0.0	0.0	0.0
19	1	1887.60	0.0	0.0	-30.31	0.0	0.34	15.15	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	498.3	-0.36	-15.15	0.0	0.0	0.0	0.0
19	3	1887.60	0.0	0.0	-30.31	0.0	0.34	15.15	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	498.3	-0.36	-15.15	0.0	0.0	0.0	0.0
19	27	1452.00	0.0	0.0	-23.31	0.0	0.26	11.66	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	498.3	-0.28	-11.66	0.0	0.0	0.0	0.0
19	35	1452.00	0.0	0.0	-23.31	0.0	0.27	11.66	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	498.3	-0.27	-11.66	0.0	0.0	0.0	0.0
20	1	1542.12	0.0	0.0	-27.39	0.0	-0.31	13.70	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	450.4	0.30	-13.70	0.0	0.0	0.0	0.0
20	3	1542.12	0.0	0.0	-27.39	0.0	4.86	13.70	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	450.4	5.48	-13.70	0.0	0.0	0.0	0.0
20	13	1186.24	0.0	0.0	-21.07	0.0	115.39	10.54	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	450.4	115.86	-10.54	0.0	0.0	0.0	0.0
20	30	1186.24	0.0	0.0	-21.07	0.0	-0.25	10.54	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	450.4	0.23	-10.54	0.0	0.0	0.0	0.0
21	1	4.578e+04	0.0	-1.34	-1084.33	0.0	-61.55	542.52	0.0	78.38	0.0	0.0
		0.0	0.0	0.06	0.0	337.7	-60.75	-541.81	0.0	78.38	0.0	0.0
21	3	3.079e+04	0.0	-0.98	-729.23	0.0	-47.09	364.85	0.0	54.57	0.0	0.0
		0.0	0.0	0.04	0.0	337.7	-46.55	-364.38	0.0	54.57	0.0	0.0
21	4	2.502e+04	0.0	-0.79	-592.59	0.0	-35.97	296.49	0.0	45.92	0.0	0.0
		0.0	0.0	0.03	0.0	337.7	-35.54	-296.10	0.0	45.92	0.0	0.0
21	5	1.123e+04	0.0	-0.46	-265.92	0.0	32.09	133.04	0.0	23.01	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	32.28	-132.88	0.0	23.01	0.0	0.0
21	7	1.123e+04	0.0	-0.46	-265.92	0.0	46.35	133.04	0.0	22.98	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	46.54	-132.88	0.0	22.98	0.0	0.0
21	8	1.123e+04	0.0	-0.45	-265.92	0.0	-115.06	133.04	0.0	22.95	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-114.87	-132.88	0.0	22.95	0.0	0.0
21	11	1.123e+04	0.0	-0.46	-265.92	0.0	-24.76	133.04	0.0	12.51	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-24.56	-132.88	0.0	12.51	0.0	0.0
21	18	1.123e+04	0.0	-0.44	-265.92	0.0	-37.86	133.04	0.0	32.78	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-37.67	-132.88	0.0	32.78	0.0	0.0
25	1	571.34	366.42	-1.60e-04	-72.80	0.0	67.71	3271.54	2271.47	5.071e+05	-3.598e+04	-5.119e+04
		-5.119e+04	-3.598e+04	-1.55e-04	0.0	16.0	67.71	3198.74	2271.47	5.071e+05	366.42	571.34
25	2	506.15	550.13	-2.01e-04	-56.00	0.0	35.60	2788.30	1958.26	4.339e+05	-3.078e+04	-4.366e+04
		-4.366e+04	-3.078e+04	-1.33e-04	0.0	16.0	35.60	2732.30	1958.26	4.339e+05	550.13	506.15
25	3	385.94	-26.42	-4.62e-05	-72.80	0.0	75.26	2423.56	1647.53	3.707e+05	-2.639e+04	-3.781e+04
		-3.781e+04	-2.639e+04	-1.19e-04	0.0	16.0	75.26	2350.76	1647.53	3.707e+05	-26.42	385.94
25	5	364.99	6050.13	3.00e-03	-56.00	0.0	-327.37	1157.12	662.30	1.709e+05	-4546.60	-1.770e+04
		-1.770e+04	-4546.60	1.26e-04	0.0	16.0	-327.37	1101.12	662.30	1.709e+05	6050.13	364.99
25	6	-89.86	-6760.92	-2.93e-03	-56.00	0.0	450.76	1163.96	849.87	1.730e+05	-2.036e+04	-1.827e+04
		-1.827e+04	-2.036e+04	-2.53e-04	0.0	16.0	450.76	1107.96	849.87	1.730e+05	-6760.92	-89.86
25	12	105.94	-1522.08	-7.27e-05	-56.00	0.0	115.98	1235.43	900.97	2.238e+05	-1.594e+04	-1.921e+04
		-1.921e+04	-1.594e+04	1.67e-04	0.0	16.0	115.98	1179.43	900.97	2.238e+05	-1522.08	105.94
26	1	-3.855e+04	5512.10	-3.27e-03	-73.61	0.0	-447.34	3075.74	1871.16	3.661e+05	-2.458e+04	-8.743e+04
		-8.743e+04	-2.458e+04	4.60e-04	0.0	16.1	-447.05	3002.13	1871.16	3.661e+05	5512.10	-3.855e+04
26	4	-2.258e+04	3255.42	-1.94e-03	-56.53	0.0	-264.71	1820.16	1102.15	2.151e+05	-1.447e+04	-5.140e+04
		-5.140e+04	-1.447e+04	2.65e-04	0.0	16.1	-264.49	1763.63	1102.15	2.151e+05	3255.42	-2.258e+04
26	5	-1.259e+04	7548.97	2.15e-03	-56.39	0.0	-493.82	1075.51	569.15	1.229e+05	-1605.37	-2.943e+04
		-2.943e+04	-1605.37	3.22e-04	0.0	16.1	-493.60	1019.13	569.15	1.229e+05	7548.97	-1.259e+04
26	6	-1.281e+04	-1822.68	-5.43e-03	-56.39	0.0	71.44	1072.51	666.41	1.224e+05	-1.254e+04	-2.961e+04
		-2.961e+04	-1.254e+04	1.53e-04	0.0	16.1	71.66	1016.12	666.41	1.224e+05	-1822.68	-1.281e+04
26	10	-1.870e+04	2958.55	-1.19e-03	-56.39	0.0	-239.32	1175.45	879.74	1.810e+05	-1.119e+04	-3.715e+04
		-3.715e+04	-1.119e+04	2.55e-04	0.0	16.1	-239.10	1119.06	879.74	1.810e+05	2958.55	-1.870e+04
26	11	-6694.39	3634.09	-1.82e-03	-56.39	0.0	-234.92	974.73	379.15	6.438e+04	-2464.21	-2.192e+04
		-2.192e+04	-2464.21	2.85e-05	0.0	16.1	-234.70	918.35	379.15	6.438e+04	3634.09	-6694.39
28	1	-5.501e+04	1084.36	-2.08e-03	-74.59	0.0	-243.51	3001.45	1835.40	3.858e+05	-2.846e+04	-1.027e+05
		-1.027e+05	-2.846e+04	-1.61e-05	0.0	16.1	-243.20	2926.85	1835.40	3.858e+05	1084.36	-5.501e+04
28	4	-3.217e+04	644.68	-1.20e-03	-57.06	0.0	-144.61	1769.86	1073.79	2.256e+05	-1.664e+04	-6.020e+04
		-6.020e+04	-1.664e+04	-1.57e-05	0.0	16.1	-144.37	1712.80	1073.79	2.256e+05	644.68	-3.217e+04
28	6	-1.870e+04	-4977.00	-4.85e-03	-56.64	0.0	331.70	1029.77	627.53	1.325e+05	-1.508e+04	-3.482e+04
		-3.482e+04	-1.508e+04	-6.41e-05	0.0	16.1	331.93	973.14	627.53	1.325e+05	-4977.00	-1.870e+04
28	7	-1.663e+04	6633.36	3.23e-03	-56.64	0.0	-564.17	1043.74	675.27	1.155e+05	-4237.00	-3.298e+04
		-3.298e+04	-4237.00	1.27e-04	0.0	16.1	-563.94	987.11	675.27	1.155e+05	6633.36	-1.663e+04
28	8	-1.866e+04	-5248.52	-4.89e-03	-56.64	0.0	356.14	1028.75	591.37	1.322e+05	-1.477e+04	-3.354e+04
		-3.354e+04	-1.477e+04	-3.07e-05	0.0	16.1	356.37	972.12	591.37	1.322e+05	-5248.52	-1.866e+04
28	10	-2.686e+04	2887.77	6.93e-04	-56.64	0.0	-269.61	1110.31	778.71	1.887e+05	-9647.68	-4.428e+04
		-4.428e+04	-9647.68	-1.13e-04	0.0	16.1	-269.37	1053.68	778.71	1.887e+05	2887.77	-2.686e+04
28	17	-8453.66	-1600.58	-2.40e-03	-56.64	0.0	61.12	965.43	558.57	5.918e+04	-1.059e+04	-3.54e+04
		-3.54e+04	-1.059e+04	2.19e-04	0.0	16.1	61.36	908.80	558.57	5.918e+04	-1600.58	-8453.66
30	1	3.272e+05	932.45	-0.13	-144.96	0.0	-1205.00	968.02	11.26	632.91	-644.00	2.018e+05
		2.018e+05	-644.00	-7.75e-04	0.0	140.0	-1210.53	823.06	11.26	632.91	932.45	3.272e+05
30	4	1.924e+05	542.09	-0.07	-100.10	0.0	-705.17	575.78	6.57	337.68	-377.21	1.188e+05
		1.188e+05	-377.21	-4.88e-04	0.0	140.0	-708.99	475.68	6.57	337.68	542.09	1.924e+05
30	6	1.124e+05	37.75	-0.04	-84.67	0.0	-273.39	355.62	4.76	211.75	-629.34	6.852e+04
		6.852e+04	-629.34	1.89e-03	0.0	140.0	-276.62	270.95	4.76	211.75	37.75	1.124e+05

30	9	1.148e+05	219.23	-0.06	-84.67	0.0	-742.37	456.67	2.57	172.21	-141.18	5.679e+04
		5.679e+04	-141.18	3.95e-04	0.0	140.0	-745.60	372.01	2.57	172.21	219.23	1.148e+05
30	12	1.095e+05	815.44	-0.03	-84.67	0.0	-163.99	250.66	10.23	161.90	-617.21	8.044e+04
		8.044e+04	-617.21	1.55e-04	0.0	140.0	-167.22	166.00	10.23	161.90	815.44	1.096e+05
30	17	1.147e+05	232.00	-0.05	-84.67	0.0	-778.09	456.10	2.73	174.67	-150.54	5.676e+04
		5.676e+04	-150.54	5.64e-04	0.0	140.0	-781.32	371.43	2.73	174.67	232.00	1.147e+05
30	18	1.095e+05	527.58	-0.03	-84.67	0.0	-96.84	249.80	6.20	146.59	-341.01	8.050e+04
		8.050e+04	-341.01	-9.23e-04	0.0	140.0	-100.07	165.13	6.20	146.59	527.58	1.095e+05
31	1	3.599e+04	2.281e+04	-6.98e-03	-1839.50	0.0	79.37	909.32	-152.09	-9.738e+04	2.281e+04	-4.350e+04
		-4.719e+04	-3.099e+04	0.02	0.0	353.7	79.37	-930.18	-152.09	-9.738e+04	-3.099e+04	-4.719e+04
31	3	3.563e+04	1.719e+04	-6.45e-03	-1839.50	0.0	56.10	887.44	-112.53	-6.932e+04	1.719e+04	-3.999e+04
		-5.142e+04	-2.262e+04	0.01	0.0	353.7	56.10	-952.06	-112.53	-6.932e+04	-2.262e+04	-5.142e+04
31	4	2.755e+04	1.349e+04	-5.13e-03	-1415.00	0.0	43.54	680.28	-89.46	-5.712e+04	1.349e+04	-3.021e+04
		-3.983e+04	-1.816e+04	0.01	0.0	353.7	43.54	-734.72	-89.46	-5.712e+04	-1.816e+04	-3.983e+04
31	5	5.582e+04	2.535e+04	-5.04e-03	-1415.00	0.0	209.72	1220.89	-124.72	-3.181e+04	2.535e+04	-1.305e+05
		-1.305e+05	-1.877e+04	2.73e-03	0.0	353.7	209.72	-194.11	-124.72	-3.181e+04	-1.877e+04	-5.115e+04
31	7	5.604e+04	2.524e+04	-5.03e-03	-1415.00	0.0	327.85	1222.91	-124.20	-3.185e+04	2.524e+04	-1.309e+05
		-1.309e+05	-1.870e+04	2.66e-03	0.0	353.7	327.85	-192.09	-124.20	-3.185e+04	-1.870e+04	-5.145e+04
31	8	7.712e+04	-1930.80	-7.21e-03	-1415.00	0.0	-290.10	103.11	20.05	-2.923e+04	-9024.28	7.582e+04
		-1.380e+05	-9024.28	9.40e-03	0.0	353.7	-290.10	-1311.89	20.05	-2.923e+04	-1930.80	-1.380e+05
32	1	690.58	1390.53	-5.52e-03	-63.03	0.0	-53.72	35.70	-88.39	-6705.42	1390.53	366.48
		366.48	-1443.75	3.02e-04	0.0	32.1	-53.57	-27.34	-88.39	-6705.42	-1443.75	500.52
32	4	431.10	797.03	-2.78e-03	-48.49	0.0	-30.09	26.40	-50.63	-3642.36	797.03	200.91
		200.91	-826.65	1.50e-04	0.0	32.1	-29.97	-22.09	-50.63	-3642.36	-826.65	270.03
32	7	282.37	1464.17	4.95e-03	-48.49	0.0	110.47	22.63	-93.03	-1378.00	1464.17	113.67
		62.00	-1518.89	-6.98e-04	0.0	32.1	110.59	-25.85	-93.03	-1378.00	-1518.89	62.00
32	8	340.08	505.63	-6.92e-03	-48.49	0.0	-216.45	26.90	31.06	-2203.64	-490.24	100.77
		100.77	-490.24	9.25e-04	0.0	32.1	-216.33	-21.58	31.06	-2203.64	505.63	186.11
32	13	278.66	1643.85	4.88e-03	-48.49	0.0	71.80	22.16	-104.17	-1305.57	1643.85	116.57
		49.79	-1696.57	-7.79e-04	0.0	32.1	71.92	-26.33	-104.17	-1305.57	-1696.57	49.79
32	16	346.03	667.76	-6.87e-03	-48.49	0.0	-207.64	27.30	41.27	-2284.35	-655.58	99.62
		99.62	-655.58	1.02e-03	0.0	32.1	-207.52	-21.19	41.27	-2284.35	667.76	197.58
33	1	618.90	1575.32	-4.46e-04	-63.03	0.0	84.76	18.42	-99.60	-4994.76	1575.32	533.00
		113.09	-1618.58	5.54e-05	0.0	32.1	84.91	-44.61	-99.60	-4994.76	-1618.58	113.09
33	4	383.77	889.94	-4.50e-05	-48.49	0.0	49.91	16.05	-56.24	-2590.38	889.94	298.86
		36.13	-913.49	1.54e-05	0.0	32.1	50.03	-32.44	-56.24	-2590.38	-913.49	36.13
33	5	310.68	4312.52	5.95e-03	-48.49	0.0	173.65	9.57	-270.09	-714.59	4312.52	280.46
		-189.99	-4348.44	-1.05e-03	0.0	32.1	173.77	-38.91	-270.09	-714.59	-4348.44	-189.99
33	7	309.51	4289.36	5.96e-03	-48.49	0.0	212.10	9.68	-268.62	-712.38	4289.36	278.67
		-188.45	-4324.42	-1.07e-03	0.0	32.1	212.21	-38.81	-268.62	-712.38	-4324.42	-188.45
33	8	288.19	2858.45	-5.31e-03	-48.49	0.0	-124.74	26.00	178.07	-1435.16	-2851.86	65.17
		65.17	-2851.86	1.11e-03	0.0	32.1	-124.63	-22.48	178.07	-1435.16	2858.45	121.54
33	13	307.20	4385.69	5.84e-03	-48.49	0.0	163.28	9.44	-274.56	-639.95	4385.69	277.77
		-196.88	-4418.65	-1.14e-03	0.0	32.1	163.40	-39.04	-274.56	-639.95	-4418.65	-196.88
34	1	3.447e+04	1.288e+04	4.10e-03	-1839.50	0.0	6.19	1034.49	95.05	1.173e+05	-2.074e+04	-6.843e+04
		-6.843e+04	-2.074e+04	-4.08e-03	0.0	353.7	6.19	-805.01	95.05	1.173e+05	1.288e+04	-2.784e+04
34	2	2.637e+04	1.205e+04	3.61e-03	-1415.00	0.0	10.61	786.75	85.91	1.011e+05	-1.834e+04	-5.099e+04
		-5.099e+04	-1.834e+04	-3.80e-03	0.0	353.7	10.61	-628.25	85.91	1.011e+05	1.205e+04	-2.296e+04
34	3	3.405e+04	8750.90	-3.36e-03	-1839.50	0.0	-9.78	1034.57	66.62	8.465e+04	-1.481e+04	-6.887e+04
		-6.887e+04	-1.481e+04	-2.74e-03	0.0	353.7	-9.78	-804.93	66.62	8.465e+04	8750.90	-2.825e+04
34	7	1.079e+05	5002.78	-7.20e-03	-1415.00	0.0	77.23	1466.52	-67.57	3.684e+04	5002.78	-1.606e+05
		-1.606e+05	-1.890e+04	-4.01e-03	0.0	353.7	77.23	51.52	-67.57	3.684e+04	-1.890e+04	1.079e+05
34	8	5.675e+04	2.544e+04	3.87e-03	-1415.00	0.0	-130.62	118.72	123.12	3.984e+04	-1.812e+04	5.509e+04
		-1.532e+05	-1.812e+04	1.82e-03	0.0	353.7	-130.62	-1296.28	123.12	3.984e+04	2.544e+04	-1.532e+05
34	11	2.399e+04	1.610e+04	-3.14e-03	-1415.00	0.0	39.64	747.35	99.62	2.154e+04	-1.914e+04	-4.563e+04
		-4.563e+04	-1.914e+04	-0.01	0.0	353.7	39.64	-667.65	99.62	2.154e+04	1.610e+04	-3.153e+04
35	1	6085.37	1.851e+04	2.29e-03	-1832.21	0.0	-240.03	759.74	-108.67	-3.254e+04	1.851e+04	-4.131e+04
		-8.850e+04	-1.429e+04	6.10e-03	0.0	301.8	-240.03	-1072.47	-108.67	-3.254e+04	-1.429e+04	-8.850e+04
35	3	1.116e+04	1.584e+04	1.53e-03	-1834.16	0.0	-202.56	788.05	-88.53	-2.527e+04	1.584e+04	-3.991e+04
		-7.885e+04	-1.088e+04	5.37e-03	0.0	301.8	-202.56	-1046.11	-88.53	-2.527e+04	-1.088e+04	-7.885e+04
35	4	8541.00	1.031e+04	1.14e-03	-1396.51	0.0	-147.68	593.30	-62.08	-1.892e+04	1.031e+04	-2.946e+04
		-6.113e+04	-8420.16	3.33e-03	0.0	301.8	-147.68	-803.21	-62.08	-1.892e+04	-8420.16	-6.113e+04
35	7	1.031e+05	3.671e+04	5.23e-03	-1401.24	0.0	506.30	1782.31	-223.15	-1.104e+04	3.671e+04	-2.233e+05
		-2.233e+05	-3.064e+04	2.81e-03	0.0	301.8	506.30	381.07	-223.15	-1.104e+04	-3.064e+04	1.031e+05
35	8	1.644e+05	2.027e+04	-6.05e-03	-1401.24	0.0	-730.47	-529.47	134.01	-1.452e+04	-2.017e+04	1.644e+05
		-2.068e+05	-2.017e+04	3.28e-03	0.0	301.8	-730.47	-1930.72	134.01	-1.452e+04	2.027e+04	-2.068e+05
35	13	9.756e+04	3.890e+04	5.01e-03	-1401.24	0.0	357.86	1740.44	-238.83	-1.099e+04	3.890e+04	-2.162e+05
		-2.162e+05	-3.317e+04	2.71e-03	0.0	301.8	357.86	339.20	-238.83	-1.099e+04	-3.317e+04	9.756e+04
36	1	5285.26	6625.26	-1.83e-03	-1983.52	0.0	-294.05	1080.20	52.06	-2461.19	-9002.42	-8.715e+04
		-8.715e+04	-9002.42	2.44e-03	0.0	300.2	-294.05	-903.32	52.06	-2461.19	6625.26	-5.355e+04
36	2	2804.65	9020.27	1.03e-03	-1475.27	0.0	-237.34	813.10	66.26	1.453e+04	-1.087e+04	-6.675e+04
		-6.675e+04	-1.087e+04	2.57e-04	0.0	300.2	-237.34	-662.16	66.26	1.453e+04	9020.27	-4.024e+04
36	3	1.097e+04	2619.33	-2.14e-03	-1990.17	0.0	-243.85	1076.28	23.26	-1.517e+04	-4363.70	-8.061e+04
		-8.061e+04	-4363.70	3.28e-03	0.0	300.2	-243.85	-913.89	23.26	-1.517e+04	2619.33	-4.898e+04
36	4	8488.01	4982.09	-8.61e-04	-1481.91	0.0	-187.14	809.21	37.20	1837.04	-6186.29	-6.022e+04
		-6.022e+04	-6186.29	9.68e-04	0.0	300.2	-187.14	-672.70	37.20	1837.04	4982.09	-3.566e+04
36	5	1.475e+05	1.362e+04	-6.27e-03	-1498.04	0.0	217.59	1879.10	-98.10	-2.078e+04	1.362e+04	-1.964e+05
		-1.964e+05	-1.583e+04	5.55e-04	0.0	300.2	217.59	381.06	-98.10	-2.078e+04	-1.583e+04	1.475e+05

36	6	8.576e+04	1.564e+04	2.97e-03	-1498.04	0.0	-498.98	-258.43	101.37	-1.344e+04	-1.479e+04	8.576e+04
		-2.121e+05	-1.479e+04	4.51e-03	0.0	300.2	-498.98	-1756.47	101.37	-1.344e+04	1.564e+04	-2.121e+05
36	7	1.447e+05	1.475e+04	-6.15e-03	-1498.04	0.0	400.26	1867.24	-143.44	-2.094e+04	1.475e+04	-1.955e+05
		-1.955e+05	-2.831e+04	-1.04e-03	0.0	300.2	400.26	369.19	-143.44	-2.094e+04	-2.831e+04	1.447e+05
36	8	8.495e+04	2.823e+04	2.85e-03	-1498.04	0.0	-680.56	-246.77	147.69	-1.330e+04	-1.610e+04	8.495e+04
		-2.094e+05	-1.610e+04	5.83e-03	0.0	300.2	-680.56	-1744.81	147.69	-1.330e+04	2.823e+04	-2.094e+05
37	1	-8.008e+05	2.076e+04	0.08	-17.27	0.0	-4863.02	-6893.55	1002.98	-1122.06	-4433.08	-8.008e+05
		-9.741e+05	-4433.08	-5.83e-03	0.0	25.1	-4863.68	-6910.82	1002.98	-1122.06	2.076e+04	-9.741e+05
37	4	-4.401e+05	1.214e+04	0.04	-13.28	0.0	-2679.99	-3800.29	585.45	-627.10	-2559.74	-4.401e+05
		-5.357e+05	-2559.74	-3.40e-03	0.0	25.1	-2680.50	-3813.58	585.45	-627.10	1.214e+04	-5.357e+05
37	8	-4.490e+05	2.231e+04	0.04	-13.28	0.0	-2698.55	-3671.04	1101.62	-539.84	-5360.02	-4.490e+05
		-5.414e+05	-5360.02	-6.58e-03	0.0	25.1	-2699.05	-3684.32	1101.62	-539.84	2.231e+04	-5.414e+05
37	11	-3.761e+05	1.516e+04	0.05	-13.28	0.0	-2381.40	-3576.72	747.31	-557.74	-3612.24	-3.761e+05
		-4.661e+05	-3612.24	-4.43e-03	0.0	25.1	-2381.91	-3590.00	747.31	-557.74	1.516e+04	-4.661e+05
37	12	-4.846e+05	9107.48	0.04	-13.28	0.0	-2825.62	-3718.56	442.43	-691.20	-2004.51	-4.846e+05
		-5.782e+05	-2004.51	-2.47e-03	0.0	25.1	-2826.13	-3731.84	442.43	-691.20	9107.48	-5.782e+05
37	17	-3.681e+05	1.536e+04	0.05	-13.28	0.0	-2650.84	-3563.72	764.84	-527.72	-3847.75	-3.681e+05
		-4.577e+05	-3847.75	-4.35e-03	0.0	25.1	-2651.34	-3577.00	764.84	-527.72	1.536e+04	-4.577e+05
37	18	-4.927e+05	8918.56	0.03	-13.28	0.0	-2557.19	-3731.73	425.61	-721.18	-1771.03	-4.927e+05
		-5.866e+05	-1771.03	-2.56e-03	0.0	25.1	-2557.70	-3745.01	425.61	-721.18	8918.56	-5.866e+05
38	1	2.553e+04	516.65	0.22	-145.57	0.0	-1074.47	-2106.50	-1.81	-1042.53	516.65	2.553e+04
		-2.808e+05	262.51	4.87e-03	0.0	140.6	-1080.03	-2252.07	-1.81	-1042.53	262.51	-2.808e+05
38	3	1.971e+04	535.58	0.16	-128.72	0.0	-782.22	-1536.67	-3.08	-650.82	535.58	1.971e+04
		-2.054e+05	102.78	4.24e-03	0.0	140.6	-787.13	-1665.39	-3.08	-650.82	102.78	-2.054e+05
38	4	1.481e+04	294.89	0.13	-100.52	0.0	-631.97	-1234.23	-0.88	-547.54	294.89	1.481e+04
		-1.658e+05	170.73	2.79e-03	0.0	140.6	-635.81	-1334.75	-0.88	-547.54	170.73	-1.658e+05
38	5	9908.27	1522.01	0.08	-85.02	0.0	-292.20	-705.46	-16.25	-229.73	1522.01	9908.27
		-9.525e+04	-763.10	6.39e-03	0.0	140.6	-295.45	-790.48	-16.25	-229.73	-763.10	-9.525e+04
38	6	1.015e+04	806.26	0.08	-85.02	0.0	-465.63	-713.09	11.62	-130.57	806.26	1.015e+04
		-9.608e+04	-827.37	-1.47e-03	0.0	140.6	-468.87	-798.11	11.62	-130.57	-9.608e+04	-9.608e+04
38	9	5.347e+04	568.98	0.10	-85.02	0.0	-320.13	-620.44	-6.56	-190.58	568.98	5.347e+04
		-3.973e+04	-353.58	2.57e-03	0.0	140.6	-323.37	-705.46	-6.56	-190.58	-353.58	-3.973e+04
38	12	-3.349e+04	547.05	0.06	-85.02	0.0	-365.66	-801.50	3.93	-145.87	547.05	-3.349e+04
		-1.521e+05	-5.18	3.40e-03	0.0	140.6	-368.90	-886.52	3.93	-145.87	-5.18	-1.521e+05
38	13	9990.97	1414.45	0.08	-85.02	0.0	-281.15	-704.61	-14.48	-237.89	1414.45	9990.97
		-9.504e+04	-621.13	5.69e-03	0.0	140.6	-284.40	-789.63	-14.48	-237.89	-621.13	-9.504e+04
38	14	1.005e+04	660.20	0.08	-85.02	0.0	-471.71	-713.96	9.78	-122.45	660.20	1.005e+04
		-9.630e+04	-715.21	-7.73e-04	0.0	140.6	-474.96	-798.98	9.78	-122.45	-715.21	-9.630e+04
39	1	-4.258e+05	-384.97	0.06	-27.19	0.0	-2300.80	-3082.73	61.86	479.72	-2009.18	-4.258e+05
		-5.071e+05	-2009.18	-6.69e-05	0.0	26.3	-2301.84	-3109.92	61.86	479.72	-384.97	-5.071e+05
39	3	-3.110e+05	13.86	0.05	-24.04	0.0	-1668.29	-2262.27	69.53	330.19	-1811.78	-3.110e+05
		-3.707e+05	-1811.78	-1.58e-04	0.0	26.3	-1669.21	-2286.31	69.53	330.19	13.86	-3.707e+05
39	4	-2.497e+05	-171.81	0.04	-18.77	0.0	-1351.28	-1813.37	39.37	269.21	-1205.52	-2.497e+05
		-2.976e+05	-1205.52	-6.40e-05	0.0	26.3	-1351.99	-1832.14	39.37	269.21	-171.81	-2.976e+05
39	5	-1.429e+05	1919.73	0.02	-15.88	0.0	-689.45	-1059.23	-303.88	108.29	1919.73	-1.429e+05
		-1.709e+05	-6058.64	1.99e-03	0.0	26.3	-690.06	-1075.10	-303.88	108.29	-6058.64	-1.709e+05
39	6	-1.450e+05	6760.44	0.02	-15.88	0.0	-840.52	-1058.91	418.86	141.31	-4236.76	-1.450e+05
		-1.730e+05	-4236.76	-2.38e-03	0.0	26.3	-841.13	-1074.79	418.86	141.31	6760.44	-1.730e+05
39	9	-9.726e+04	-125.11	0.03	-15.88	0.0	-579.68	-993.42	39.26	132.06	-1155.96	-9.726e+04
		-1.236e+05	-1155.96	-2.13e-04	0.0	26.3	-580.29	-1009.30	39.26	132.06	-125.11	-1.236e+05
39	10	-1.907e+05	776.82	0.02	-15.88	0.0	-949.91	-1123.96	72.94	126.13	-1138.26	-1.907e+05
		-2.204e+05	-1138.26	-1.62e-04	0.0	26.3	-950.52	-1139.83	72.94	126.13	776.82	-2.204e+05
39	11	-9.403e+04	-903.62	0.03	-15.88	0.0	-633.12	-989.18	1.24	123.07	-936.29	-9.403e+04
		-1.202e+05	-936.29	-2.97e-04	0.0	26.3	-633.73	-1005.06	1.24	123.07	-903.62	-1.202e+05
39	12	-1.940e+05	1518.24	0.02	-15.88	0.0	-896.46	-1128.79	108.75	129.73	-1337.05	-1.940e+05
		-2.238e+05	-1337.05	-6.64e-05	0.0	26.3	-897.06	-1144.67	108.75	129.73	1518.24	-2.238e+05
40	1	-4.282e+05	2126.41	0.06	-27.19	0.0	-2483.57	-3148.90	106.63	95.85	-673.39	-4.282e+05
		-5.113e+05	-6173.39	-8.33e-05	0.0	26.3	-2484.60	-3176.09	106.63	95.85	2126.41	-5.113e+05
40	3	-3.126e+05	1858.84	0.05	-24.04	0.0	-1834.09	-2305.78	102.80	47.18	-840.28	-3.126e+05
		-3.735e+05	-840.28	-1.72e-04	0.0	26.3	-1835.01	-2329.82	102.80	47.18	1858.84	-3.735e+05
40	4	-2.510e+05	1302.76	0.04	-18.77	0.0	-1456.56	-1849.27	65.69	42.50	-421.93	-2.510e+05
		-2.998e+05	-421.93	-7.34e-05	0.0	26.3	-1457.28	-1868.04	65.69	42.50	1302.76	-2.998e+05
40	5	-1.432e+05	2317.55	0.02	-15.88	0.0	-927.93	-1069.17	-284.72	-25.41	2317.55	-1.432e+05
		-1.715e+05	-5158.12	1.97e-03	0.0	26.3	-928.53	-1085.04	-284.72	-25.41	-5158.12	-1.715e+05
40	6	-1.456e+05	7590.23	0.02	-15.88	0.0	-796.89	-1076.12	431.80	7.22	-3747.20	-1.456e+05
		-1.741e+05	-3747.20	-2.38e-03	0.0	26.3	-797.50	-1092.00	431.80	7.22	7590.23	-1.741e+05
40	9	-9.781e+04	592.15	0.03	-15.88	0.0	-776.38	-1009.43	52.91	5.81	-797.17	-9.781e+04
		-1.245e+05	-797.17	-2.22e-04	0.0	26.3	-776.98	-1025.31	52.91	5.81	592.15	-1.245e+05
40	10	-1.912e+05	1787.08	0.02	-15.88	0.0	-951.13	-1136.95	91.10	-15.42	-604.74	-1.912e+05
		-2.212e+05	-604.74	-1.69e-04	0.0	26.3	-951.74	-1152.83	91.10	-15.42	1787.08	-2.212e+05
40	11	-9.448e+04	-101.42	0.03	-15.88	0.0	-880.14	-1003.33	16.65	-2.45	-538.63	-9.448e+04
		-1.210e+05	-538.63	-3.08e-04	0.0	26.3	-880.74	-1019.21	16.65	-2.45	-101.42	-1.210e+05
40	12	-1.945e+05	2445.51	0.02	-15.88	0.0	-847.22	-1142.48	125.31	-12.55	-844.59	-1.945e+05
		-2.247e+05	-844.59	-7.50e-05	0.0	26.3	-847.83	-1158.35	125.31	-12.55	2445.51	-2.247e+05
41	1	-2.855e+05	2698.76	0.04	-27.04	0.0	-1644.60	-2577.08	-185.63	-1165.86	2698.76	-2.855e+05
		-3.535e+05	-2175.17	1.87e-03	0.0	26.3	-1645.63	-2604.12	-185.63	-1165.86	-2175.17	-3.535e+05
41	3	-2.083e+05	2287.39	0.03	-23.95	0.0	-1222.88	-1905.70	-175.72	-740.31	2287.39	-2.083e+05
		-2.587e+05	-2326.43	1.64e-03	0.0	26.3	-1223.80	-1929.65	-175.72	-740.31	-2326.43	-2.587e+05

41	4	-1.682e+05	1604.52	0.02	-18.70	0.0	-968.20	-1527.01	-110.39	-617.18	1604.52	-1.682e+05
		-2.086e+05	-1293.96	1.10e-03	0.0	26.3	-968.91	-1545.70	-110.39	-617.18	-1293.96	-2.086e+05
41	5	-9.634e+04	3411.71	0.01	-15.85	0.0	-613.48	-904.18	-373.79	-258.23	3411.71	-9.634e+04
		-1.203e+05	-6402.43	2.58e-03	0.0	26.3	-614.09	-920.03	-373.79	-258.23	-6402.43	-1.203e+05
41	9	-4.054e+04	1113.04	0.02	-15.85	0.0	-453.54	-822.85	-121.23	-251.29	1113.04	-4.054e+04
		-6.236e+04	-2069.85	9.05e-04	0.0	26.3	-454.15	-838.70	-121.23	-251.29	-2069.85	-6.236e+04
41	10	-1.527e+05	1626.11	7.08e-03	-15.85	0.0	-709.78	-994.80	-114.57	-189.28	1626.11	-1.527e+05
		-1.791e+05	-1382.06	1.08e-03	0.0	26.3	-710.38	-1010.65	-114.57	-189.28	-1382.06	-1.791e+05
41	11	-4.029e+04	1471.12	0.02	-15.85	0.0	-520.09	-819.48	-166.63	-271.85	1471.12	-4.029e+04
		-6.201e+04	-2903.94	8.44e-04	0.0	26.3	-520.70	-835.32	-166.63	-271.85	-2903.94	-6.201e+04
41	12	-1.530e+05	1377.86	7.09e-03	-15.85	0.0	-639.79	-998.23	-78.09	-168.89	1377.86	-1.530e+05
		-1.795e+05	-672.48	1.18e-03	0.0	26.3	-640.40	-1014.08	-78.09	-168.89	-672.48	-1.795e+05
42	1	-2.916e+05	1758.94	0.04	-27.19	0.0	-1990.68	-2901.90	-221.24	-995.43	1758.94	-2.916e+05
		-3.682e+05	-4049.82	1.90e-03	0.0	26.3	-1991.71	-2929.08	-221.24	-995.43	-4049.82	-3.682e+05
42	4	-1.714e+05	1051.79	0.02	-18.77	0.0	-1172.44	-1701.84	-131.43	-516.24	1051.79	-1.714e+05
		-2.163e+05	-2398.79	1.11e-03	0.0	26.3	-1173.16	-1720.61	-131.43	-516.24	-2398.79	-2.163e+05
42	5	-9.760e+04	3121.88	0.01	-15.88	0.0	-660.98	-980.95	-388.09	-197.23	3121.88	-9.760e+04
		-1.236e+05	-7067.45	2.60e-03	0.0	26.3	-661.58	-996.83	-388.09	-197.23	-7067.45	-1.236e+05
42	9	-4.130e+04	882.45	0.02	-15.88	0.0	-420.77	-885.97	-128.71	-172.23	882.45	-4.130e+04
		-6.477e+04	-2496.70	9.07e-04	0.0	26.3	-421.37	-901.85	-128.71	-172.23	-2496.70	-6.477e+04
42	10	-1.537e+05	1219.09	7.42e-03	-15.88	0.0	-921.46	-1069.35	-132.09	-147.33	1219.09	-1.537e+05
		-1.820e+05	-2248.92	1.09e-03	0.0	26.3	-922.07	-1085.23	-132.09	-147.33	-2248.92	-1.820e+05
42	11	-4.124e+04	1222.17	0.02	-15.88	0.0	-445.82	-887.03	-175.22	-192.64	1222.17	-4.124e+04
		-6.474e+04	-3378.23	8.47e-04	0.0	26.3	-446.43	-902.91	-175.22	-192.64	-3378.23	-6.474e+04
42	12	-1.538e+05	986.14	7.41e-03	-15.88	0.0	-902.75	-1068.39	-94.33	-127.10	986.14	-1.538e+05
		-1.821e+05	-1490.54	1.20e-03	0.0	26.3	-903.36	-1084.27	-94.33	-127.10	-1490.54	-1.821e+05
43	1	-3.115e+05	2363.38	0.04	-25.19	0.0	-2300.81	-3294.02	73.35	1748.35	2363.38	-3.115e+05
		-3.946e+05	520.62	-3.18e-05	0.0	25.1	-2301.77	-3319.20	73.35	1748.35	520.62	-3.946e+05
43	4	-1.823e+05	1370.06	0.02	-17.52	0.0	-1342.22	-1926.79	41.23	1030.22	1370.06	-1.823e+05
		-2.309e+05	334.30	-2.05e-05	0.0	25.1	-1342.89	-1944.31	41.23	1030.22	334.30	-2.309e+05
43	5	-8.970e+04	3269.06	0.01	-15.01	0.0	-612.41	-1055.47	-338.05	360.12	3269.06	-8.970e+04
		-1.164e+05	-5223.13	2.09e-03	0.0	25.1	-612.99	-1070.48	-338.05	360.12	-5223.13	-1.164e+05
43	6	-1.090e+05	6149.08	0.01	-15.01	0.0	-1013.18	-1134.81	355.39	790.36	6149.08	-1.090e+05
		-1.377e+05	-2778.69	-1.78e-03	0.0	25.1	-1013.75	-1149.83	355.39	790.36	-2778.69	-1.377e+05
43	7	-8.995e+04	3421.34	0.01	-15.01	0.0	-625.74	-1057.14	-352.79	362.93	3421.34	-8.995e+04
		-1.167e+05	-5441.13	2.11e-03	0.0	25.1	-626.31	-1072.16	-352.79	362.93	-5441.13	-1.167e+05
43	8	-1.087e+05	6396.00	0.01	-15.01	0.0	-999.37	-1133.18	371.90	788.34	6396.00	-1.087e+05
		-1.374e+05	-2946.59	-1.81e-03	0.0	25.1	-999.95	-1148.19	371.90	788.34	-2946.59	-1.374e+05
43	17	-3.718e+04	2505.68	0.02	-15.01	0.0	-814.50	-942.15	132.02	195.80	2505.68	-3.718e+04
		-6.104e+04	-810.80	-2.33e-04	0.0	25.1	-815.07	-957.17	132.02	195.80	-810.80	-6.104e+04
43	18	-1.616e+05	1184.91	8.99e-03	-15.01	0.0	-820.03	-1246.99	-101.21	947.11	1184.91	-1.616e+05
		-1.931e+05	-1357.61	4.89e-04	0.0	25.1	-820.60	-1262.00	-101.21	947.11	-1357.61	-1.931e+05
45	1	7.091e+04	1626.62	0.02	-1454.75	0.0	-473.83	-790.70	-9.33	-4022.60	1626.62	7.091e+04
		-1.115e+05	505.39	-9.20e-04	0.0	120.2	-529.44	-2245.45	-9.33	-4022.60	505.39	-1.115e+05
45	4	4.152e+04	1120.68	0.01	-872.55	0.0	-278.75	-457.38	-7.22	-2773.91	1120.68	4.152e+04
		-6.589e+04	253.35	-5.33e-04	0.0	120.2	-312.10	-1329.93	-7.22	-2773.91	253.35	-6.589e+04
45	5	3.802e+04	6517.90	9.43e-03	-1011.87	0.0	-38.80	-331.76	-41.98	-1.624e+04	6517.90	3.802e+04
		-6.267e+04	1472.32	-6.53e-03	0.0	120.2	-77.48	-1343.63	-41.98	-1.624e+04	1472.32	-6.267e+04
45	6	3.848e+04	54.75	9.52e-03	-1011.87	0.0	-437.60	-386.97	49.78	1.122e+04	54.75	3.848e+04
		-6.884e+04	-5927.79	5.72e-03	0.0	120.2	-476.28	-1398.84	49.78	1.122e+04	-5927.79	-6.884e+04
45	9	3.531e+04	2239.55	5.62e-03	-1011.87	0.0	0.30	118.94	-6.01	-2556.26	2239.55	3.447e+04
		-1.204e+04	1517.30	-6.54e-04	0.0	120.2	-38.38	-892.93	-6.01	-2556.26	1517.30	-1.204e+04
45	12	4.243e+04	35.40	0.01	-1011.87	0.0	-439.78	-899.33	-11.14	-2564.20	35.40	4.243e+04
		-1.265e+05	-1303.06	6.55e-04	0.0	120.2	-478.45	-1911.20	-11.14	-2564.20	-1303.06	-1.265e+05
46	1	2.376e+04	0.0	-0.16	-562.77	0.0	-55.99	281.07	0.0	299.66	0.0	0.0
		0.0	0.0	0.01	0.0	337.8	-54.25	-281.69	0.0	299.66	0.0	0.0
46	2	2.065e+04	0.0	-0.14	-489.04	0.0	-44.13	244.25	0.0	256.52	0.0	0.0
		0.0	0.0	0.01	0.0	337.8	-42.62	-244.79	0.0	256.52	0.0	0.0
46	3	1.635e+04	0.0	-0.11	-387.27	0.0	-51.33	193.43	0.0	218.71	0.0	0.0
		0.0	0.0	9.02e-03	0.0	337.8	-50.14	-193.84	0.0	218.71	0.0	0.0
46	4	1.324e+04	0.0	-0.09	-313.54	0.0	-39.47	156.60	0.0	175.56	0.0	0.0
		0.0	0.0	7.01e-03	0.0	337.8	-38.50	-156.94	0.0	175.56	0.0	0.0
46	5	6421.42	0.0	-0.04	-152.10	0.0	-93.21	75.98	0.0	98.18	0.0	0.0
		0.0	0.0	1.47e-03	0.0	337.8	-92.74	-76.12	0.0	98.18	0.0	0.0
46	6	6421.42	0.0	-0.04	-152.10	0.0	18.12	75.98	0.0	103.75	0.0	0.0
		0.0	0.0	7.10e-03	0.0	337.8	18.59	-76.12	0.0	103.75	0.0	0.0
46	17	6421.42	0.0	-0.04	-152.10	0.0	-39.83	75.98	0.0	86.08	0.0	0.0
		0.0	0.0	-3.23e-03	0.0	337.8	-39.36	-76.12	0.0	86.08	0.0	0.0
46	19	6421.42	0.0	-0.04	-152.10	0.0	-37.43	75.98	0.0	84.09	0.0	0.0
		0.0	0.0	-8.94e-03	0.0	337.8	-36.96	-76.12	0.0	84.09	0.0	0.0
46	20	6421.42	0.0	-0.04	-152.10	0.0	-34.61	75.98	0.0	118.06	0.0	0.0
		0.0	0.0	0.02	0.0	337.8	-34.14	-76.12	0.0	118.06	0.0	0.0
47	1	1.703e+04	-1.286e+04	4.13e-03	-317.79	0.0	-354.22	-1215.95	-436.95	1.037e+04	-1.286e+04	1.703e+04
		-1.907e+04	-2.433e+04	4.67e-04	0.0	26.3	-366.33	-1533.74	-436.95	1.037e+04	-2.433e+04	-1.907e+04
47	3	1.039e+04	-9460.65	3.53e-03	-317.79	0.0	-312.39	-1149.22	-410.54	1.007e+04	-9460.65	1.039e+04
		-2.395e+04	-2.024e+04	5.16e-04	0.0	26.3	-324.50	-1467.01	-410.54	1.007e+04	-2.024e+04	-2.395e+04
47	4	1.001e+04	-7473.00	2.44e-03	-190.61	0.0	-208.38	-717.83	-260.82	6231.88	-7473.00	1.001e+04
		-1.134e+04	-1.432e+04	2.72e-04	0.0	26.3	-215.65	-908.44	-260.82	6231.88	-1.432e+04	-1.134e+04

47	5	8638.85	-6957.04	2.33e-03	-221.04	0.0	-72.89	-707.24	-632.59	1.783e+04	-6957.04	8638.85
		-1.283e+04	-2.357e+04	1.24e-03	0.0	26.3	-81.32	-928.29	-632.59	1.783e+04	-2.357e+04	-1.283e+04
47	6	-2361.56	1465.76	1.80e-03	-221.04	0.0	-308.75	-799.64	160.71	-4233.81	-2753.64	-2361.56
		-2.626e+04	-2753.64	-5.33e-04	0.0	26.3	-317.18	-1020.68	160.71	-4233.81	1465.76	-2.626e+04
47	9	9.243e+04	-3180.18	7.04e-03	-221.04	0.0	566.34	-19.40	-241.50	6714.63	-3180.18	9.243e+04
		8.902e+04	-9520.77	4.63e-04	0.0	26.3	557.91	-240.45	-241.50	6714.63	-9520.77	8.902e+04
47	10	-8.631e+04	-5427.02	-2.91e-03	-221.04	0.0	-948.80	-1488.76	-292.14	6855.48	-5427.02	-8.631e+04
		-1.283e+05	-1.310e+04	2.93e-04	0.0	26.3	-957.22	-1709.80	-292.14	6855.48	-1.310e+04	-1.283e+05
47	11	1.040e+05	-3007.29	7.64e-03	-221.04	0.0	480.38	73.61	-270.25	6657.48	-3007.29	1.036e+05
		1.027e+05	-1.010e+04	2.96e-04	0.0	26.3	471.96	-147.43	-270.25	6657.48	-1.010e+04	1.027e+05
47	12	-9.753e+04	-5874.12	-3.52e-03	-221.04	0.0	-862.94	-1581.82	-250.00	6908.89	-5874.12	-9.753e+04
		-1.420e+05	-1.244e+04	4.49e-04	0.0	26.3	-871.36	-1802.86	-250.00	6908.89	-1.244e+04	-1.420e+05
48	1	4.578e+04	0.0	-1.14	-1084.30	0.0	-32.34	542.51	0.0	-326.70	0.0	0.0
		0.0	0.0	0.05	0.0	337.7	-31.01	-541.79	0.0	-326.70	0.0	0.0
48	2	4.001e+04	0.0	-0.98	-947.67	0.0	-24.57	474.15	0.0	-277.62	0.0	0.0
		0.0	0.0	0.04	0.0	337.7	-23.41	-473.52	0.0	-277.62	0.0	0.0
48	4	2.502e+04	0.0	-0.67	-592.58	0.0	-18.63	296.48	0.0	-191.50	0.0	0.0
		0.0	0.0	0.03	0.0	337.7	-17.91	-296.10	0.0	-191.50	0.0	0.0
48	5	1.123e+04	0.0	-0.38	-265.91	0.0	2.24	133.04	0.0	-112.80	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	2.57	-132.88	0.0	-112.80	0.0	0.0
48	7	1.123e+04	0.0	-0.38	-265.91	0.0	18.17	133.04	0.0	-112.84	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	18.50	-132.88	0.0	-112.84	0.0	0.0
48	8	1.123e+04	0.0	-0.38	-265.91	0.0	-94.74	133.04	0.0	-113.09	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-94.42	-132.88	0.0	-113.09	0.0	0.0
48	17	1.123e+04	0.0	-0.37	-265.91	0.0	-3.62	133.04	0.0	-119.29	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-3.29	-132.88	0.0	-119.29	0.0	0.0
48	18	1.123e+04	0.0	-0.40	-265.91	0.0	-32.15	133.04	0.0	-106.66	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-31.82	-132.88	0.0	-106.66	0.0	0.0
49	1	5.234e+04	0.0	-0.91	-795.83	0.0	-244.87	419.47	0.0	125.14	0.0	0.0
		0.0	0.0	0.02	0.0	501.9	-243.36	-376.36	0.0	125.14	0.0	0.0
49	3	3.602e+04	0.0	-0.63	-548.97	0.0	-237.59	288.62	0.0	132.34	0.0	0.0
		0.0	0.0	0.02	0.0	501.9	-236.54	-260.35	0.0	132.34	0.0	0.0
49	4	2.916e+04	0.0	-0.51	-444.28	0.0	-148.20	233.67	0.0	64.35	0.0	0.0
		0.0	0.0	0.01	0.0	501.9	-147.36	-210.61	0.0	64.35	0.0	0.0
49	5	1.415e+04	0.0	-0.26	-217.19	0.0	-314.70	113.30	0.0	90.47	0.0	0.0
		0.0	0.0	0.01	0.0	501.9	-314.29	-103.89	0.0	90.47	0.0	0.0
49	6	1.415e+04	0.0	-0.25	-217.19	0.0	-15.40	113.30	0.0	92.88	0.0	0.0
		0.0	0.0	0.01	0.0	501.9	-14.98	-103.89	0.0	92.88	0.0	0.0
49	8	1.415e+04	0.0	-0.25	-217.19	0.0	-32.48	113.30	0.0	93.21	0.0	0.0
		0.0	0.0	0.02	0.0	501.9	-32.07	-103.89	0.0	93.21	0.0	0.0
49	17	1.415e+04	0.0	-0.25	-217.19	0.0	-91.67	113.30	0.0	98.80	0.0	0.0
		0.0	0.0	0.02	0.0	501.9	-91.26	-103.89	0.0	98.80	0.0	0.0
50	1	2.406e+04	0.0	-0.23	-569.82	0.0	-214.64	284.91	0.0	354.96	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-214.64	-284.91	0.0	354.96	0.0	0.0
50	2	2.091e+04	0.0	-0.20	-495.24	0.0	-140.46	247.62	0.0	306.66	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	-140.46	-247.62	0.0	306.66	0.0	0.0
50	4	1.340e+04	0.0	-0.13	-317.31	0.0	-129.24	158.66	0.0	208.11	0.0	0.0
		0.0	0.0	9.70e-03	0.0	337.7	-129.24	-158.66	0.0	208.11	0.0	0.0
50	5	6485.87	0.0	-0.07	-153.63	0.0	-139.90	76.81	0.0	115.87	0.0	0.0
		0.0	0.0	3.53e-03	0.0	337.7	-139.90	-76.81	0.0	115.87	0.0	0.0
50	15	6485.87	0.0	-0.07	-153.63	0.0	-120.02	76.81	0.0	115.71	0.0	0.0
		0.0	0.0	2.80e-03	0.0	337.7	-120.02	-76.81	0.0	115.71	0.0	0.0
50	16	6485.87	0.0	-0.06	-153.63	0.0	-159.57	76.81	0.0	116.83	0.0	0.0
		0.0	0.0	9.21e-03	0.0	337.7	-159.57	-76.81	0.0	116.83	0.0	0.0
50	18	6485.87	0.0	-0.06	-153.63	0.0	-139.46	76.81	0.0	108.69	0.0	0.0
		0.0	0.0	3.94e-03	0.0	337.7	-139.46	-76.81	0.0	108.69	0.0	0.0
50	19	6485.87	0.0	-0.06	-153.63	0.0	-135.77	76.81	0.0	122.78	0.0	0.0
		0.0	0.0	3.96e-03	0.0	337.7	-135.77	-76.81	0.0	122.78	0.0	0.0
50	20	6485.87	0.0	-0.06	-153.63	0.0	-137.30	76.81	0.0	109.75	0.0	0.0
		0.0	0.0	8.05e-03	0.0	337.7	-137.30	-76.81	0.0	109.75	0.0	0.0
51	1	4.583e+04	0.0	-0.63	-1085.45	0.0	-65.82	542.90	0.0	499.09	0.0	0.0
		0.0	0.0	0.03	0.0	337.7	-65.82	-542.54	0.0	499.09	0.0	0.0
51	4	2.504e+04	0.0	-0.36	-593.19	0.0	-38.94	296.69	0.0	292.68	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-38.94	-296.50	0.0	292.68	0.0	0.0
51	5	1.124e+04	0.0	-0.19	-266.16	0.0	-7.81	133.12	0.0	174.33	0.0	0.0
		0.0	0.0	8.04e-03	0.0	337.7	-7.81	-133.04	0.0	174.33	0.0	0.0
51	10	1.124e+04	0.0	-0.17	-266.16	0.0	-41.96	133.12	0.0	144.92	0.0	0.0
		0.0	0.0	8.63e-03	0.0	337.7	-41.96	-133.04	0.0	144.92	0.0	0.0
51	15	1.124e+04	0.0	-0.19	-266.16	0.0	10.81	133.12	0.0	174.78	0.0	0.0
		0.0	0.0	7.33e-03	0.0	337.7	10.81	-133.04	0.0	174.78	0.0	0.0
51	16	1.124e+04	0.0	-0.18	-266.16	0.0	-85.80	133.12	0.0	170.91	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	-85.80	-133.04	0.0	170.91	0.0	0.0
51	19	1.124e+04	0.0	-0.20	-266.16	0.0	-29.97	133.12	0.0	202.42	0.0	0.0
		0.0	0.0	9.03e-03	0.0	337.7	-29.97	-133.04	0.0	202.42	0.0	0.0
51	20	1.124e+04	0.0	-0.17	-266.16	0.0	-42.19	133.12	0.0	143.24	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	-42.19	-133.04	0.0	143.24	0.0	0.0
52	1	2.600e+04	5619.70	-6.60e-03	-887.62	0.0	32.87	2223.31	34.93	1.036e+04	3057.99	-1.045e+05
		-1.045e+05	3057.99	2.21e-03	0.0	73.3	-1.02	1335.69	34.93	1.036e+04	5619.70	2.600e+04

52	2	1.869e+04	3841.04	-4.62e-03	-532.39	0.0	41.55	1507.53	21.28	6526.40	2280.54	-7.234e+04
		-7.234e+04	2280.54	1.62e-03	0.0	73.3	21.22	975.14	21.28	6526.40	3841.04	1.869e+04
52	3	2.225e+04	5141.19	-5.86e-03	-887.62	0.0	9.64	2023.44	35.46	1.006e+04	2540.81	-9.359e+04
		-9.359e+04	2540.81	1.85e-03	0.0	73.3	-24.25	1135.82	35.46	1.006e+04	5141.19	2.225e+04
52	4	1.494e+04	3354.16	-3.88e-03	-532.39	0.0	18.69	1307.72	21.59	6230.12	1770.92	-6.144e+04
		-6.144e+04	1770.92	1.26e-03	0.0	73.3	-1.64	775.33	21.59	6230.12	3354.16	1.494e+04
52	7	1.184e+04	9170.26	-3.80e-03	-617.40	0.0	203.68	1324.68	125.90	1.781e+04	-62.75	-6.267e+04
		-6.267e+04	-62.75	2.38e-03	0.0	73.3	180.11	707.28	125.90	1.781e+04	9170.26	1.184e+04
52	9	-1947.68	3103.51	-5.33e-03	-617.40	0.0	272.30	2025.32	23.68	6698.74	1366.64	-1.278e+05
		-1.278e+05	1366.64	1.08e-03	0.0	73.3	248.74	1407.92	23.68	6698.74	3103.51	-1947.68
52	10	2.830e+04	3664.45	-1.96e-03	-617.40	0.0	-294.05	523.03	32.28	6870.52	1297.08	1.207e+04
		1.207e+04	1297.08	8.78e-04	0.0	73.3	-317.62	-94.37	32.28	6870.52	3664.45	-1.96e+03
52	11	-4063.74	3353.70	-5.51e-03	-617.40	0.0	120.66	2122.42	34.68	6639.63	810.76	-1.371e+05
		-1.371e+05	810.76	5.32e-04	0.0	73.3	97.09	1505.02	34.68	6639.63	3353.70	-4063.74
52	12	3.208e+04	3836.60	-1.92e-03	-617.40	0.0	-152.43	425.89	26.90	6925.86	1863.99	2.131e+04
		2.131e+04	1863.99	1.37e-03	0.0	73.3	-176.00	-191.51	26.90	6925.86	3836.60	-1.92e+03
52	16	1.425e+04	3168.24	-3.35e-03	-617.40	0.0	-255.34	1211.68	-67.25	-4088.54	3168.24	-5.197e+04
		-5.197e+04	-1763.79	-5.72e-05	0.0	73.3	-278.91	594.28	-67.25	-4088.54	-1763.79	1.425e+04
53	1	3.626e+04	1647.15	7.33e-03	-1007.39	0.0	-289.58	-1022.43	-0.90	233.08	1647.15	3.626e+04
		-9.076e+04	1572.55	5.01e-04	0.0	83.2	-328.06	-2029.82	-0.90	233.08	1572.55	-9.076e+04
53	4	2.126e+04	947.53	4.32e-03	-604.23	0.0	-171.83	-594.87	-0.28	110.34	947.53	2.126e+04
		-5.340e+04	924.20	2.69e-04	0.0	83.2	-194.91	-1199.10	-0.28	110.34	924.20	-5.340e+04
53	8	1.771e+04	321.41	4.07e-03	-700.70	0.0	-571.08	-545.98	46.62	2424.03	-3559.04	1.771e+04
		-5.689e+04	-3559.04	4.34e-04	0.0	83.2	-597.84	-1246.69	46.62	2424.03	321.41	-5.689e+04
53	9	3.665e+04	667.98	6.12e-03	-700.70	0.0	436.26	-168.28	-1.66	513.53	667.98	3.665e+04
		-6516.33	529.93	5.47e-04	0.0	83.2	409.49	-868.98	-1.66	513.53	529.93	-6516.33
53	10	1024.85	836.46	3.04e-03	-700.70	0.0	-705.77	-876.16	5.41	-161.56	836.46	1024.85
		-1.011e+05	386.19	-2.92e-05	0.0	83.2	-732.54	-1576.87	5.41	-161.56	386.46	-1.011e+05
53	11	3.905e+04	827.89	6.38e-03	-700.70	0.0	391.91	-121.81	5.66	-112.92	356.75	3.905e+04
		-249.31	356.75	-5.66e-05	0.0	83.2	365.14	-822.51	5.66	-112.92	827.89	-249.31
53	12	-1377.13	874.62	2.98e-03	-700.70	0.0	-673.01	-922.76	10.92	443.23	-34.32	-1377.13
		-1.073e+05	-34.32	4.93e-04	0.0	83.2	-699.77	-1623.46	10.92	443.23	874.62	-1.073e+05
53	15	2.031e+04	4055.12	4.35e-03	-700.70	0.0	306.38	-491.49	-31.68	-2520.39	4055.12	2.031e+04
		-4.976e+04	1418.32	-3.92e-04	0.0	83.2	279.62	-1192.19	-31.68	-2520.39	1418.32	-4.976e+04
54	1	2.163e+04	1726.61	6.22e-03	-813.98	0.0	-282.80	-1320.90	-1.81	2632.56	1726.61	2.163e+04
		-9.457e+04	1604.85	1.65e-03	0.0	67.3	-313.88	-2134.88	-1.81	2632.56	1604.85	-9.457e+04
54	4	1.263e+04	996.48	3.66e-03	-488.22	0.0	-166.81	-770.65	-0.67	1533.04	996.48	1.263e+04
		-5.562e+04	951.61	9.38e-04	0.0	67.3	-185.44	-1258.88	-0.67	1533.04	951.61	-5.562e+04
54	6	9862.08	1800.51	3.61e-03	-566.18	0.0	-466.52	-711.33	94.32	292.71	-4542.32	9862.08
		-5.701e+04	-4542.32	-8.21e-04	0.0	67.3	-488.14	-1277.51	94.32	292.71	1800.51	-5.701e+04
54	9	2.821e+04	656.05	4.61e-03	-566.18	0.0	528.35	-395.49	7.99	1706.05	118.73	2.821e+04
		-1.742e+04	118.73	8.29e-04	0.0	67.3	506.74	-961.66	7.99	1706.05	656.05	-1.742e+04
54	10	-6908.64	859.10	2.90e-03	-566.18	0.0	-813.97	-994.43	1.83	1255.56	736.02	-6908.64
		-9.282e+04	736.02	6.16e-04	0.0	67.3	-835.59	-1560.60	1.83	1255.56	859.10	-9.282e+04
54	11	3.071e+04	638.13	4.76e-03	-566.18	0.0	471.63	-354.83	11.21	1094.11	-115.45	3.071e+04
		-1.219e+04	-115.45	3.55e-04	0.0	67.3	450.01	-921.01	11.21	1094.11	638.13	-1.219e+04
54	12	-9407.19	954.07	2.83e-03	-566.18	0.0	-766.75	-1035.14	10.87	1850.62	223.06	-9407.19
		-9.806e+04	223.06	1.03e-03	0.0	67.3	-788.36	-1601.32	10.87	1850.62	954.07	-9.806e+04
54	13	1.177e+04	4387.61	3.66e-03	-566.18	0.0	159.34	-672.82	-66.54	2223.50	4387.61	1.177e+04
		-5.252e+04	-87.18	1.84e-03	0.0	67.3	137.73	-1238.99	-66.54	2223.50	-87.18	-5.252e+04
55	1	5846.17	3267.27	-4.75e-03	-694.22	0.0	62.35	2204.69	23.67	2636.02	1909.84	-1.007e+05
		-1.007e+05	1909.84	5.61e-04	0.0	57.4	35.87	1510.48	23.67	2636.02	3267.27	5846.17
55	3	4239.11	2592.88	-4.38e-03	-694.22	0.0	35.74	2014.07	19.75	2379.27	1460.04	-9.137e+04
		-9.137e+04	1460.04	4.72e-04	0.0	57.4	9.26	1319.85	19.75	2379.27	2592.88	4239.11
55	4	3094.73	1900.87	-2.78e-03	-416.39	0.0	34.86	1293.87	13.92	1535.01	1102.38	-5.917e+04
		-5.917e+04	1102.38	3.11e-04	0.0	57.4	18.98	877.48	13.92	1535.01	1900.87	3094.73
55	5	260.26	5797.61	-2.62e-03	-482.87	0.0	419.22	1289.06	93.24	2709.88	449.82	-5.983e+04
		-5.983e+04	449.82	2.57e-04	0.0	57.4	400.80	806.19	93.24	2709.88	5797.61	260.26
55	6	3309.37	1670.65	-2.95e-03	-482.87	0.0	-405.46	1256.06	-61.13	294.34	1670.65	-5.489e+04
		-5.489e+04	-1835.42	3.13e-04	0.0	57.4	-423.88	773.19	-61.13	294.34	-1835.42	3309.37
55	7	135.47	6098.53	-2.61e-03	-482.87	0.0	414.37	1290.52	99.44	2634.79	395.10	-6.004e+04
		-6.004e+04	395.10	2.48e-04	0.0	57.4	395.96	807.65	99.44	2634.79	6098.53	135.47
55	11	-2.762e+04	1578.19	1.03e-03	-482.87	0.0	158.90	1635.73	14.31	1090.97	757.51	-1.076e+05
		-1.076e+05	757.51	5.47e-05	0.0	57.4	140.49	1152.86	14.31	1090.97	1578.19	-2.762e+04
55	12	3.123e+04	2288.82	-5.53e-03	-482.87	0.0	-161.55	908.88	18.66	1856.24	1218.65	-7053.21
		-7053.21	1218.65	4.53e-04	0.0	57.4	-179.97	426.01	18.66	1856.24	2288.82	3.123e+04
55	16	3894.06	1908.04	-3.01e-03	-482.87	0.0	-384.68	1249.15	-71.31	833.71	1908.04	-5.390e+04
		-5.390e+04	-2181.74	6.14e-04	0.0	57.4	-403.09	766.28	-71.31	833.71	-2181.74	3894.06
56	1	4.426e+04	3267.43	-4.87e-03	-1701.60	0.0	-55.63	968.29	-10.96	2634.03	3267.43	5534.39
		5534.39	1726.47	2.56e-03	0.0	140.6	-120.59	-733.31	-10.96	2634.03	1726.47	2.205e+04
56	2	2.873e+04	2584.26	-3.22e-03	-1020.61	0.0	33.24	594.22	-10.20	1789.96	2584.26	4440.48
		4440.48	1150.55	1.90e-03	0.0	140.6	-72.21	-426.39	-10.20	1789.96	1150.55	1.624e+04
56	3	4.170e+04	2592.98	-4.54e-03	-1701.60	0.0	-55.86	955.23	-7.54	2377.82	2592.98	4007.89
		4007.89	1533.53	2.11e-03	0.0	140.6	-120.82	-746.38	-7.54	2377.82	1533.53	1.869e+04
56	4	2.617e+04	1900.96	-2.88e-03	-1020.61	0.0	-33.68	581.18	-6.43	1533.90	1900.96	2911.91
		2911.91	996.40	1.45e-03	0.0	140.6	-72.65	-439.43	-6.43	1533.90	996.40	1.288e+04
56	6	2.750e+04	-1835.34	-2.85e-03	-1183.57	0.0	-424.18	640.16	-19.26	293.34	-1835.34	3199.08
		3199.08	-4542.37	-1.69e-04	0.0	140.6	-469.37	-543.41	-19.26	293.34	-4542.37	1.000e+04

56	7	2.706e+04	6098.52	-3.03e-03	-1183.57	0.0	339.13	674.75	-21.76	2634.56	6098.52	25.91
		25.91	3038.97	2.75e-03	0.0	140.6	293.95	-508.82	-21.76	2634.56	3038.97	1.169e+04
56	9	3.117e+04	1292.11	-5.29e-03	-1183.57	0.0	440.96	965.90	-8.35	1707.29	1292.11	-2.424e+04
		-2.424e+04	118.66	1.56e-03	0.0	140.6	395.78	-217.68	-8.35	1707.29	118.66	2.836e+04
56	10	3.475e+04	1901.43	3.05e-03	-1183.57	0.0	-524.96	347.08	-8.29	1255.54	1901.43	2.763e+04
		-6774.90	736.00	8.61e-04	0.0	140.6	-570.15	-836.49	-8.29	1255.54	736.00	-6774.90
56	11	3.263e+04	1578.04	-5.71e-03	-1183.57	0.0	365.42	1008.39	-12.05	1095.44	1578.04	-2.771e+04
		-2.771e+04	-115.53	6.20e-04	0.0	140.6	320.23	-175.18	-12.05	1095.44	-115.53	3.085e+04
56	12	3.661e+04	2289.04	3.58e-03	-1183.57	0.0	-461.07	304.54	-14.70	1850.51	2289.04	3.111e+04
		-9273.76	223.04	1.85e-03	0.0	140.6	-506.25	-879.03	-14.70	1850.51	223.04	-9273.76
57	1	5.138e+04	5619.64	4.13e-03	-1701.60	0.0	-34.06	793.07	-131.45	1.036e+04	5619.64	2.550e+04
		1.738e+04	-1.286e+04	5.00e-03	0.0	140.6	-99.02	-908.54	-131.45	1.036e+04	-1.286e+04	1.738e+04
57	2	3.554e+04	3841.01	2.82e-03	-1020.61	0.0	-3.97	500.90	-104.58	6525.84	3841.01	1.827e+04
		1.694e+04	-1.086e+04	3.45e-03	0.0	140.6	-42.94	-519.72	-104.58	6525.84	-1.086e+04	1.694e+04
57	3	4.640e+04	5141.12	3.71e-03	-1701.60	0.0	-50.27	770.90	-103.87	1.006e+04	5141.12	2.188e+04
		1.065e+04	-9461.26	4.44e-03	0.0	140.6	-115.23	-930.71	-103.87	1.006e+04	-9461.26	1.065e+04
57	4	3.037e+04	3354.12	2.40e-03	-1020.61	0.0	-19.93	478.79	-77.02	6229.68	3354.12	1.465e+04
		1.022e+04	-7473.35	2.90e-03	0.0	140.6	-58.90	-541.82	-77.02	6229.68	-7473.35	1.022e+04
57	5	3.105e+04	8598.85	-2.03e-03	-1183.57	0.0	100.68	570.54	-110.66	1.783e+04	8598.85	1.174e+04
		8757.78	-6958.18	7.21e-03	0.0	140.6	55.50	-613.03	-110.66	1.783e+04	-6958.18	8757.78
57	7	3.123e+04	9170.11	-2.05e-03	-1183.57	0.0	102.28	574.20	-112.24	1.781e+04	9170.11	1.167e+04
		9196.00	-6609.22	6.94e-03	0.0	140.6	57.10	-609.37	-112.24	1.781e+04	-6609.22	9196.00
57	9	9.255e+04	3103.44	-6.51e-03	-1183.57	0.0	459.66	1265.41	-44.70	6698.83	3103.44	-2148.23
		-2148.23	-3180.04	2.84e-03	0.0	140.6	414.47	81.84	-44.70	6698.83	-3180.04	9.255e+04
57	10	2.764e+04	3664.42	5.19e-03	-1183.57	0.0	-552.68	-217.99	-64.68	6869.66	3664.42	2.764e+04
		-8.620e+04	-5428.03	2.43e-03	0.0	140.6	-597.87	-1401.56	-64.68	6869.66	-5428.03	-8.620e+04
57	11	1.038e+05	3353.64	-7.18e-03	-1183.57	0.0	353.05	1360.28	-45.24	6639.80	3353.64	-4266.65
		-4266.65	-3007.07	1.86e-03	0.0	140.6	307.87	176.71	-45.24	6639.80	-3007.07	1.038e+05
57	12	2.976e+04	3836.57	5.82e-03	-1183.57	0.0	-455.83	-312.90	-69.08	6924.93	3836.57	2.976e+04
		-9.742e+04	-5875.22	3.40e-03	0.0	140.6	-501.01	-1496.47	-69.08	6924.93	-5875.22	-9.742e+04
58	1	4.155e+04	0.0	-0.21	-1033.01	0.0	-126.22	516.50	0.0	-244.30	0.0	0.0
		0.0	0.0	-3.65e-03	0.0	321.8	-126.22	-516.50	0.0	-244.30	0.0	0.0
58	2	3.631e+04	0.0	-0.19	-902.84	0.0	-93.23	451.42	0.0	-209.31	0.0	0.0
		0.0	0.0	-3.55e-03	0.0	321.8	-93.23	-451.42	0.0	-209.31	0.0	0.0
58	3	2.794e+04	0.0	0.15	-694.71	0.0	-107.93	347.36	0.0	-177.63	0.0	0.0
		0.0	0.0	-2.25e-03	0.0	321.8	-107.93	-347.36	0.0	-177.63	0.0	0.0
58	4	2.271e+04	0.0	0.12	-564.55	0.0	-74.77	282.27	0.0	-142.64	0.0	0.0
		0.0	0.0	-2.16e-03	0.0	321.8	-74.77	-282.27	0.0	-142.64	0.0	0.0
58	5	1.019e+04	0.0	0.06	-253.33	0.0	-99.68	126.67	0.0	-81.81	0.0	0.0
		0.0	0.0	-3.69e-03	0.0	321.8	-99.68	-126.67	0.0	-81.81	0.0	0.0
58	9	1.019e+04	0.0	0.07	-253.33	0.0	-53.37	126.67	0.0	-79.47	0.0	0.0
		0.0	0.0	-6.12e-03	0.0	321.8	-53.37	-126.67	0.0	-79.47	0.0	0.0
58	10	1.019e+04	0.0	0.07	-253.33	0.0	-78.62	126.67	0.0	-82.94	0.0	0.0
		0.0	0.0	4.84e-03	0.0	321.8	-78.62	-126.67	0.0	-82.94	0.0	0.0
58	13	1.019e+04	0.0	0.06	-253.33	0.0	-101.26	126.67	0.0	-81.92	0.0	0.0
		0.0	0.0	-4.09e-03	0.0	321.8	-101.26	-126.67	0.0	-81.92	0.0	0.0
58	14	1.019e+04	0.0	0.07	-253.33	0.0	-41.15	126.67	0.0	-80.47	0.0	0.0
		0.0	0.0	2.85e-03	0.0	321.8	-41.15	-126.67	0.0	-80.47	0.0	0.0
59	1	4.146e+04	0.0	0.40	-1030.96	0.0	-101.85	515.48	0.0	-260.13	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-101.85	-515.48	0.0	-260.13	0.0	0.0
59	2	3.624e+04	0.0	0.35	-901.04	0.0	-73.35	450.52	0.0	-222.51	0.0	0.0
		0.0	0.0	-9.47e-03	0.0	321.8	-73.35	-450.52	0.0	-222.51	0.0	0.0
59	4	2.266e+04	0.0	0.24	-563.45	0.0	-59.38	281.72	0.0	-151.97	0.0	0.0
		0.0	0.0	-6.19e-03	0.0	321.8	-59.38	-281.72	0.0	-151.97	0.0	0.0
59	5	1.017e+04	0.0	0.13	-252.88	0.0	-49.04	126.44	0.0	-87.39	0.0	0.0
		0.0	0.0	-5.78e-03	0.0	321.8	-49.04	-126.44	0.0	-87.39	0.0	0.0
59	8	1.017e+04	0.0	0.14	-252.88	0.0	-81.96	126.44	0.0	-86.87	0.0	0.0
		0.0	0.0	-8.75e-05	0.0	321.8	-81.96	-126.44	0.0	-86.87	0.0	0.0
59	9	1.017e+04	0.0	0.13	-252.88	0.0	-40.58	126.44	0.0	-87.28	0.0	0.0
		0.0	0.0	-8.50e-03	0.0	321.8	-40.58	-126.44	0.0	-87.28	0.0	0.0
59	10	1.017e+04	0.0	0.14	-252.88	0.0	-62.74	126.44	0.0	-86.95	0.0	0.0
		0.0	0.0	2.66e-03	0.0	321.8	-62.74	-126.44	0.0	-86.95	0.0	0.0
59	17	1.017e+04	0.0	0.13	-252.88	0.0	-38.87	126.44	0.0	-87.20	0.0	0.0
		0.0	0.0	-7.77e-03	0.0	321.8	-38.87	-126.44	0.0	-87.20	0.0	0.0
60	1	4.146e+04	0.0	0.60	-1030.96	0.0	-60.78	515.48	0.0	-238.40	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	-60.78	-515.48	0.0	-238.40	0.0	0.0
60	2	3.624e+04	0.0	0.51	-901.04	0.0	-42.64	450.52	0.0	-203.67	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	-42.64	-450.52	0.0	-203.67	0.0	0.0
60	4	2.266e+04	0.0	0.35	-563.45	0.0	-34.74	281.72	0.0	-139.50	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-34.74	-281.72	0.0	-139.50	0.0	0.0
60	5	1.017e+04	0.0	0.20	-252.88	0.0	-37.27	126.44	0.0	-80.56	0.0	0.0
		0.0	0.0	-7.85e-03	0.0	321.8	-37.27	-126.44	0.0	-80.56	0.0	0.0
60	8	1.017e+04	0.0	0.21	-252.88	0.0	-63.32	126.44	0.0	-80.63	0.0	0.0
		0.0	0.0	-2.66e-03	0.0	321.8	-63.32	-126.44	0.0	-80.63	0.0	0.0
60	9	1.017e+04	0.0	0.20	-252.88	0.0	-21.31	126.44	0.0	-81.03	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-21.31	-126.44	0.0	-81.03	0.0	0.0
60	10	1.017e+04	0.0	0.20	-252.88	0.0	-49.44	126.44	0.0	-80.13	0.0	0.0
		0.0	0.0	5.38e-04	0.0	321.8	-49.44	-126.44	0.0	-80.13	0.0	0.0

60	17	1.017e+04	0.0	0.20	-252.88	0.0	-21.04	126.44	0.0	-81.06	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-21.04	-126.44	0.0	-81.06	0.0	0.0
61	1	4.146e+04	0.0	0.77	-1030.96	0.0	-30.13	515.48	0.0	-174.65	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	-30.13	-515.48	0.0	-174.65	0.0	0.0
61	3	2.789e+04	0.0	0.56	-693.37	0.0	-25.79	346.68	0.0	-128.15	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	-25.79	-346.68	0.0	-128.15	0.0	0.0
61	4	2.266e+04	0.0	0.45	-563.45	0.0	-17.15	281.72	0.0	-102.52	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-17.15	-281.72	0.0	-102.52	0.0	0.0
61	5	1.017e+04	0.0	0.25	-252.88	0.0	0.12	126.44	0.0	-59.60	0.0	0.0
		0.0	0.0	-9.54e-03	0.0	321.8	0.12	-126.44	0.0	-59.60	0.0	0.0
61	7	1.017e+04	0.0	0.25	-252.88	0.0	19.60	126.44	0.0	-59.59	0.0	0.0
		0.0	0.0	-9.55e-03	0.0	321.8	19.60	-126.44	0.0	-59.59	0.0	0.0
61	8	1.017e+04	0.0	0.26	-252.88	0.0	-61.19	126.44	0.0	-60.13	0.0	0.0
		0.0	0.0	-4.90e-03	0.0	321.8	-61.19	-126.44	0.0	-60.13	0.0	0.0
61	9	1.017e+04	0.0	0.26	-252.88	0.0	0.42	126.44	0.0	-58.93	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	0.42	-126.44	0.0	-58.93	0.0	0.0
61	10	1.017e+04	0.0	0.26	-252.88	0.0	-43.55	126.44	0.0	-60.78	0.0	0.0
		0.0	0.0	-1.18e-03	0.0	321.8	-43.55	-126.44	0.0	-60.78	0.0	0.0
61	18	1.017e+04	0.0	0.26	-252.88	0.0	-41.36	126.44	0.0	-60.67	0.0	0.0
		0.0	0.0	-1.91e-03	0.0	321.8	-41.36	-126.44	0.0	-60.67	0.0	0.0
62	1	4.146e+04	0.0	0.87	-1030.96	0.0	-36.15	515.48	0.0	-65.66	0.0	0.0
		0.0	0.0	-0.03	0.0	321.8	-36.15	-515.48	0.0	-65.66	0.0	0.0
62	4	2.266e+04	0.0	0.51	-563.45	0.0	-20.68	281.72	0.0	-39.00	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	-20.68	-281.72	0.0	-39.00	0.0	0.0
62	5	1.017e+04	0.0	0.29	-252.88	0.0	50.97	126.44	0.0	-23.16	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	50.97	-126.44	0.0	-23.16	0.0	0.0
62	7	1.017e+04	0.0	0.29	-252.88	0.0	70.37	126.44	0.0	-23.16	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	70.37	-126.44	0.0	-23.16	0.0	0.0
62	8	1.017e+04	0.0	0.30	-252.88	0.0	-122.71	126.44	0.0	-23.91	0.0	0.0
		0.0	0.0	-6.44e-03	0.0	321.8	-122.71	-126.44	0.0	-23.91	0.0	0.0
62	15	1.017e+04	0.0	0.29	-252.88	0.0	63.56	126.44	0.0	-23.09	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	63.56	-126.44	0.0	-23.09	0.0	0.0
62	17	1.017e+04	0.0	0.29	-252.88	0.0	-5.84	126.44	0.0	-19.66	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-5.84	-126.44	0.0	-19.66	0.0	0.0
62	18	1.017e+04	0.0	0.30	-252.88	0.0	-29.03	126.44	0.0	-27.40	0.0	0.0
		0.0	0.0	-2.86e-03	0.0	321.8	-29.03	-126.44	0.0	-27.40	0.0	0.0
63	1	4.146e+04	0.0	0.88	-1030.96	0.0	-19.71	515.48	0.0	90.31	0.0	0.0
		0.0	0.0	-0.03	0.0	321.8	-19.71	-515.48	0.0	90.31	0.0	0.0
63	3	2.789e+04	0.0	0.64	-693.37	0.0	-18.54	346.68	0.0	65.42	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	-18.54	-346.68	0.0	65.42	0.0	0.0
63	4	2.266e+04	0.0	0.52	-563.45	0.0	-11.19	281.72	0.0	52.29	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	-11.19	-281.72	0.0	52.29	0.0	0.0
63	5	1.017e+04	0.0	0.29	-252.88	0.0	-17.61	126.44	0.0	29.80	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-17.61	-126.44	0.0	29.80	0.0	0.0
63	8	1.017e+04	0.0	0.30	-252.88	0.0	-77.13	126.44	0.0	29.06	0.0	0.0
		0.0	0.0	-6.72e-03	0.0	321.8	-77.13	-126.44	0.0	29.06	0.0	0.0
63	9	1.017e+04	0.0	0.29	-252.88	0.0	4.97	126.44	0.0	38.28	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	4.97	-126.44	0.0	38.28	0.0	0.0
63	10	1.017e+04	0.0	0.30	-252.88	0.0	-37.90	126.44	0.0	20.58	0.0	0.0
		0.0	0.0	-1.93e-03	0.0	321.8	-37.90	-126.44	0.0	20.58	0.0	0.0
63	35	1.017e+04	0.0	0.29	-252.88	0.0	6.19	126.44	0.0	34.96	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	6.19	-126.44	0.0	34.96	0.0	0.0
64	1	4.146e+04	0.0	0.76	-1030.96	0.0	35.46	515.48	0.0	293.22	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	35.46	-515.48	0.0	293.22	0.0	0.0
64	2	3.624e+04	0.0	0.65	-901.04	0.0	29.84	450.52	0.0	250.00	0.0	0.0
		0.0	0.0	-0.02	0.0	321.8	29.84	-450.52	0.0	250.00	0.0	0.0
64	4	2.266e+04	0.0	0.44	-563.45	0.0	21.14	281.72	0.0	171.54	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	21.14	-281.72	0.0	171.54	0.0	0.0
64	5	1.017e+04	0.0	0.25	-252.88	0.0	183.61	126.44	0.0	99.86	0.0	0.0
		0.0	0.0	-8.53e-03	0.0	321.8	183.61	-126.44	0.0	99.86	0.0	0.0
64	7	1.017e+04	0.0	0.25	-252.88	0.0	200.13	126.44	0.0	99.87	0.0	0.0
		0.0	0.0	-8.58e-03	0.0	321.8	200.13	-126.44	0.0	99.87	0.0	0.0
64	8	1.017e+04	0.0	0.26	-252.88	0.0	-193.51	126.44	0.0	99.29	0.0	0.0
		0.0	0.0	-5.10e-03	0.0	321.8	-193.51	-126.44	0.0	99.29	0.0	0.0
64	9	1.017e+04	0.0	0.24	-252.88	0.0	-16.87	126.44	0.0	115.04	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-16.87	-126.44	0.0	115.04	0.0	0.0
64	10	1.017e+04	0.0	0.27	-252.88	0.0	40.36	126.44	0.0	84.09	0.0	0.0
		0.0	0.0	-1.33e-04	0.0	321.8	40.36	-126.44	0.0	84.09	0.0	0.0
64	17	1.017e+04	0.0	0.24	-252.88	0.0	-16.60	126.44	0.0	114.91	0.0	0.0
		0.0	0.0	-0.01	0.0	321.8	-16.60	-126.44	0.0	114.91	0.0	0.0
65	1	4.545e+04	0.0	0.42	-1069.68	0.0	-61.63	538.17	0.0	419.54	0.0	0.0
		0.0	0.0	-5.09e-03	0.0	337.8	-61.63	-531.51	0.0	419.54	0.0	0.0
65	2	3.972e+04	0.0	0.36	-934.81	0.0	-49.90	470.33	0.0	357.98	0.0	0.0
		0.0	0.0	-4.79e-03	0.0	337.8	-49.90	-464.47	0.0	357.98	0.0	0.0
65	4	2.484e+04	0.0	0.25	-584.75	0.0	-36.19	294.16	0.0	246.06	0.0	0.0
		0.0	0.0	-3.03e-03	0.0	337.8	-36.19	-290.59	0.0	246.06	0.0	0.0
65	5	1.116e+04	0.0	0.14	-262.73	0.0	68.95	132.09	0.0	142.60	0.0	0.0
		0.0	0.0	-3.67e-03	0.0	337.8	68.95	-130.64	0.0	142.60	0.0	0.0

65	7	1.116e+04	0.0	0.14	-262.73	0.0	75.07	132.09	0.0	142.57	0.0	0.0
		0.0	0.0	-3.72e-03	0.0	337.8	75.07	-130.64	0.0	142.57	0.0	0.0
65	8	1.116e+04	0.0	0.14	-262.73	0.0	-161.14	132.09	0.0	143.43	0.0	0.0
		0.0	0.0	1.14e-03	0.0	337.8	-161.14	-130.64	0.0	143.43	0.0	0.0
65	12	1.116e+04	0.0	0.16	-262.73	0.0	-0.41	132.09	0.0	140.11	0.0	0.0
		0.0	0.0	0.01	0.0	337.8	-0.41	-130.64	0.0	140.11	0.0	0.0
65	19	1.116e+04	0.0	0.12	-262.73	0.0	-61.27	132.09	0.0	146.30	0.0	0.0
		0.0	0.0	-0.01	0.0	337.8	-61.27	-130.64	0.0	146.30	0.0	0.0
65	20	1.116e+04	0.0	0.16	-262.73	0.0	0.67	132.09	0.0	140.14	0.0	0.0
		0.0	0.0	0.01	0.0	337.8	0.67	-130.64	0.0	140.14	0.0	0.0
66	1	8.237e+04	0.0	-1.17	-1432.04	0.0	-174.21	726.19	0.0	22.26	0.0	0.0
		0.0	0.0	6.21e-03	0.0	453.8	-174.18	-705.85	0.0	22.26	0.0	0.0
66	4	4.502e+04	0.0	-0.64	-782.90	0.0	-102.23	396.89	0.0	12.07	0.0	0.0
		0.0	0.0	3.30e-03	0.0	453.8	-102.22	-386.01	0.0	12.07	0.0	0.0
66	5	2.021e+04	0.0	-0.29	-351.86	0.0	-166.81	178.15	0.0	1.81	0.0	0.0
		0.0	0.0	-1.00e-03	0.0	453.8	-166.80	-173.71	0.0	1.81	0.0	0.0
66	6	2.021e+04	0.0	-0.28	-351.86	0.0	-37.06	178.15	0.0	12.53	0.0	0.0
		0.0	0.0	6.96e-03	0.0	453.8	-37.05	-173.71	0.0	12.53	0.0	0.0
66	12	2.021e+04	0.0	-0.29	-351.86	0.0	-108.74	178.15	0.0	9.71	0.0	0.0
		0.0	0.0	5.26e-03	0.0	453.8	-108.73	-173.71	0.0	9.71	0.0	0.0
66	19	2.021e+04	0.0	-0.29	-351.86	0.0	-81.66	178.15	0.0	4.78	0.0	0.0
		0.0	0.0	1.35e-03	0.0	453.8	-81.65	-173.71	0.0	4.78	0.0	0.0
66	20	2.021e+04	0.0	-0.29	-351.86	0.0	-109.02	178.15	0.0	9.60	0.0	0.0
		0.0	0.0	4.84e-03	0.0	453.8	-109.01	-173.71	0.0	9.60	0.0	0.0
67	1	7.173e+04	0.0	-0.91	-1331.54	0.0	-111.46	676.32	0.0	20.14	0.0	0.0
		0.0	0.0	6.37e-03	0.0	424.6	-111.43	-655.22	0.0	20.14	0.0	0.0
67	2	6.269e+04	0.0	-0.79	-1163.59	0.0	-81.21	591.07	0.0	16.74	0.0	0.0
		0.0	0.0	4.25e-03	0.0	424.6	-81.18	-572.51	0.0	16.74	0.0	0.0
67	3	4.825e+04	0.0	-0.61	-896.01	0.0	-95.22	454.92	0.0	14.30	0.0	0.0
		0.0	0.0	5.50e-03	0.0	424.6	-95.20	-441.09	0.0	14.30	0.0	0.0
67	4	3.921e+04	0.0	-0.50	-728.06	0.0	-64.92	369.67	0.0	10.90	0.0	0.0
		0.0	0.0	3.39e-03	0.0	424.6	-64.90	-358.38	0.0	10.90	0.0	0.0
67	5	1.761e+04	0.0	-0.23	-327.39	0.0	-129.05	166.00	0.0	-1.30	0.0	0.0
		0.0	0.0	-1.11e-03	0.0	424.6	-129.04	-161.39	0.0	-1.30	0.0	0.0
67	6	1.761e+04	0.0	-0.22	-327.39	0.0	-24.51	166.00	0.0	12.98	0.0	0.0
		0.0	0.0	7.01e-03	0.0	424.6	-24.50	-161.39	0.0	12.98	0.0	0.0
67	12	1.761e+04	0.0	-0.23	-327.39	0.0	-73.73	166.00	0.0	8.19	0.0	0.0
		0.0	0.0	5.23e-03	0.0	424.6	-73.73	-161.39	0.0	8.19	0.0	0.0
67	19	1.761e+04	0.0	-0.22	-327.39	0.0	-33.96	166.00	0.0	3.54	0.0	0.0
		0.0	0.0	1.32e-03	0.0	424.6	-33.96	-161.39	0.0	3.54	0.0	0.0
67	20	1.761e+04	0.0	-0.23	-327.39	0.0	-74.19	166.00	0.0	8.14	0.0	0.0
		0.0	0.0	4.83e-03	0.0	424.6	-74.19	-161.39	0.0	8.14	0.0	0.0
68	1	6.218e+04	0.0	-0.70	-1238.32	0.0	-74.00	629.67	0.0	11.68	0.0	0.0
		0.0	0.0	6.23e-03	0.0	395.3	-73.91	-608.65	0.0	11.68	0.0	0.0
68	3	4.183e+04	0.0	-0.47	-833.31	0.0	-62.06	423.54	0.0	8.06	0.0	0.0
		0.0	0.0	5.36e-03	0.0	395.3	-61.99	-409.76	0.0	8.06	0.0	0.0
68	4	3.399e+04	0.0	-0.38	-677.10	0.0	-42.49	344.17	0.0	6.31	0.0	0.0
		0.0	0.0	3.31e-03	0.0	395.3	-42.44	-332.93	0.0	6.31	0.0	0.0
68	5	1.526e+04	0.0	-0.18	-304.52	0.0	-67.11	154.55	0.0	-5.14	0.0	0.0
		0.0	0.0	-1.13e-03	0.0	395.3	-67.09	-149.96	0.0	-5.14	0.0	0.0
68	12	1.526e+04	0.0	-0.18	-304.52	0.0	-56.42	154.55	0.0	4.56	0.0	0.0
		0.0	0.0	5.09e-03	0.0	395.3	-56.39	-149.96	0.0	4.56	0.0	0.0
68	17	1.526e+04	0.0	-0.17	-304.52	0.0	-4.49	154.55	0.0	1.14	0.0	0.0
		0.0	0.0	8.15e-03	0.0	395.3	-4.47	-149.96	0.0	1.14	0.0	0.0
68	18	1.526e+04	0.0	-0.18	-304.52	0.0	-74.16	154.55	0.0	5.04	0.0	0.0
		0.0	0.0	-2.35e-03	0.0	395.3	-74.14	-149.96	0.0	5.04	0.0	0.0
69	1	5.332e+04	0.0	-0.52	-1145.20	0.0	-38.15	583.09	0.0	-0.27	0.0	0.0
		0.0	0.0	5.76e-03	0.0	366.2	-38.12	-562.11	0.0	-0.27	0.0	0.0
69	4	2.915e+04	0.0	-0.29	-626.21	0.0	-21.18	318.72	0.0	-0.19	0.0	0.0
		0.0	0.0	3.06e-03	0.0	366.2	-21.17	-307.49	0.0	-0.19	0.0	0.0
69	5	1.309e+04	0.0	-0.13	-281.67	0.0	-27.03	143.12	0.0	-8.98	0.0	0.0
		0.0	0.0	-9.21e-04	0.0	366.2	-27.03	-138.54	0.0	-8.98	0.0	0.0
69	9	1.309e+04	0.0	-0.12	-281.67	0.0	5.05	143.12	0.0	-1.01	0.0	0.0
		0.0	0.0	7.03e-03	0.0	366.2	5.05	-138.54	0.0	-1.01	0.0	0.0
69	10	1.309e+04	0.0	-0.14	-281.67	0.0	-53.81	143.12	0.0	0.02	0.0	0.0
		0.0	0.0	-1.65e-03	0.0	366.2	-53.80	-138.54	0.0	0.02	0.0	0.0
69	11	1.309e+04	0.0	-0.12	-281.67	0.0	3.17	143.12	0.0	-0.25	0.0	0.0
		0.0	0.0	7.78e-04	0.0	366.2	3.18	-138.54	0.0	-0.25	0.0	0.0
69	16	1.309e+04	0.0	-0.13	-281.67	0.0	-65.53	143.12	0.0	7.89	0.0	0.0
		0.0	0.0	7.24e-03	0.0	366.2	-65.52	-138.54	0.0	7.89	0.0	0.0
70	1	4.514e+04	0.0	-0.38	-1052.17	0.0	-13.80	536.51	0.0	-12.86	0.0	0.0
		0.0	0.0	5.05e-03	0.0	337.0	-13.78	-515.66	0.0	-12.86	0.0	0.0
70	2	3.945e+04	0.0	-0.33	-919.43	0.0	-10.76	468.88	0.0	-10.41	0.0	0.0
		0.0	0.0	3.28e-03	0.0	337.0	-10.73	-450.55	0.0	-10.41	0.0	0.0
70	3	3.037e+04	0.0	-0.26	-708.10	0.0	-11.13	360.89	0.0	-9.53	0.0	0.0
		0.0	0.0	4.44e-03	0.0	337.0	-11.11	-347.22	0.0	-9.53	0.0	0.0
70	4	2.468e+04	0.0	-0.21	-575.36	0.0	-7.98	293.26	0.0	-7.08	0.0	0.0
		0.0	0.0	2.67e-03	0.0	337.0	-7.96	-282.10	0.0	-7.08	0.0	0.0

70	5	1.108e+04	0.0	-0.10	-258.83	0.0	49.24	131.69	0.0	-11.95	0.0	0.0
		0.0	0.0	-4.38e-04	0.0	337.0	49.25	-127.14	0.0	-11.95	0.0	0.0
70	8	1.108e+04	0.0	-0.09	-258.83	0.0	-102.36	131.69	0.0	3.34	0.0	0.0
		0.0	0.0	5.63e-03	0.0	337.0	-102.35	-127.14	0.0	3.34	0.0	0.0
70	10	1.108e+04	0.0	-0.10	-258.83	0.0	-44.65	131.69	0.0	-6.79	0.0	0.0
		0.0	0.0	-1.76e-03	0.0	337.0	-44.64	-127.14	0.0	-6.79	0.0	0.0
70	11	1.108e+04	0.0	-0.09	-258.83	0.0	8.69	131.69	0.0	-1.20	0.0	0.0
		0.0	0.0	7.37e-04	0.0	337.0	8.69	-127.14	0.0	-1.20	0.0	0.0
70	12	1.108e+04	0.0	-0.10	-258.83	0.0	-27.86	131.69	0.0	-7.39	0.0	0.0
		0.0	0.0	4.37e-03	0.0	337.0	-27.85	-127.14	0.0	-7.39	0.0	0.0
70	15	1.108e+04	0.0	-0.10	-258.83	0.0	67.92	131.69	0.0	-11.83	0.0	0.0
		0.0	0.0	-1.22e-03	0.0	337.0	67.93	-127.14	0.0	-11.83	0.0	0.0
71	1	3.765e+04	0.0	-0.27	-959.21	0.0	51.01	489.97	0.0	-23.77	0.0	0.0
		0.0	0.0	4.10e-03	0.0	307.8	51.03	-469.24	0.0	-23.77	0.0	0.0
71	4	2.058e+04	0.0	-0.15	-524.54	0.0	29.35	267.82	0.0	-13.20	0.0	0.0
		0.0	0.0	2.15e-03	0.0	307.8	29.37	-256.73	0.0	-13.20	0.0	0.0
71	5	9242.30	0.0	-0.07	-236.01	0.0	97.12	120.27	0.0	-13.39	0.0	0.0
		0.0	0.0	5.13e-04	0.0	307.8	97.13	-115.74	0.0	-13.39	0.0	0.0
71	7	9242.30	0.0	-0.07	-236.01	0.0	119.02	120.27	0.0	-13.42	0.0	0.0
		0.0	0.0	2.25e-04	0.0	307.8	119.03	-115.74	0.0	-13.42	0.0	0.0
71	8	9242.30	0.0	-0.07	-236.01	0.0	-87.30	120.27	0.0	-2.51	0.0	0.0
		0.0	0.0	3.99e-03	0.0	307.8	-87.30	-115.74	0.0	-2.51	0.0	0.0
71	12	9242.30	0.0	-0.07	-236.01	0.0	7.99	120.27	0.0	-15.28	0.0	0.0
		0.0	0.0	3.76e-03	0.0	307.8	8.00	-115.74	0.0	-15.28	0.0	0.0
71	18	9242.30	0.0	-0.07	-236.01	0.0	-10.77	120.27	0.0	-15.58	0.0	0.0
		0.0	0.0	-2.66e-03	0.0	307.8	-10.77	-115.74	0.0	-15.58	0.0	0.0
71	20	9242.30	0.0	-0.07	-236.01	0.0	7.42	120.27	0.0	-15.26	0.0	0.0
		0.0	0.0	3.41e-03	0.0	307.8	7.43	-115.74	0.0	-15.26	0.0	0.0
72	1	1.622e+04	0.0	-0.09	-466.00	0.0	169.95	232.97	0.0	-31.08	0.0	0.0
		0.0	0.0	2.92e-03	0.0	278.5	170.06	-233.03	0.0	-31.08	0.0	0.0
72	3	1.116e+04	0.0	-0.06	-320.61	0.0	128.61	160.29	0.0	-23.54	0.0	0.0
		0.0	0.0	2.88e-03	0.0	278.5	128.69	-160.33	0.0	-23.54	0.0	0.0
72	4	9036.51	0.0	-0.05	-259.58	0.0	94.48	129.78	0.0	-17.57	0.0	0.0
		0.0	0.0	1.49e-03	0.0	278.5	94.54	-129.81	0.0	-17.57	0.0	0.0
72	5	4380.50	0.0	-0.03	-125.83	0.0	111.67	62.91	0.0	-12.45	0.0	0.0
		0.0	0.0	2.11e-03	0.0	278.5	111.70	-62.92	0.0	-12.45	0.0	0.0
72	7	4380.50	0.0	-0.03	-125.83	0.0	132.39	62.91	0.0	-12.65	0.0	0.0
		0.0	0.0	1.84e-03	0.0	278.5	132.43	-62.92	0.0	-12.65	0.0	0.0
72	8	4380.50	0.0	-0.02	-125.83	0.0	-20.70	62.91	0.0	-9.78	0.0	0.0
		0.0	0.0	1.66e-03	0.0	278.5	-20.67	-62.92	0.0	-9.78	0.0	0.0
72	9	4380.50	0.0	-0.02	-125.83	0.0	81.21	62.91	0.0	4.37	0.0	0.0
		0.0	0.0	6.12e-03	0.0	278.5	81.24	-62.92	0.0	4.37	0.0	0.0
72	10	4380.50	0.0	-0.03	-125.83	0.0	39.01	62.91	0.0	-26.76	0.0	0.0
		0.0	0.0	-2.57e-03	0.0	278.5	39.04	-62.92	0.0	-26.76	0.0	0.0
72	18	4380.50	0.0	-0.03	-125.83	0.0	38.21	62.91	0.0	-26.89	0.0	0.0
		0.0	0.0	-3.15e-03	0.0	278.5	38.24	-62.92	0.0	-26.89	0.0	0.0
73	1	8.869e+04	0.0	-1.50	-1440.54	0.0	98.35	729.97	0.0	209.98	0.0	0.0
		0.0	0.0	0.03	0.0	472.9	97.94	-710.58	0.0	209.98	0.0	0.0
73	2	7.751e+04	0.0	-1.25	-1258.60	0.0	63.81	637.83	0.0	101.34	0.0	0.0
		0.0	0.0	0.01	0.0	472.9	63.46	-620.77	0.0	101.34	0.0	0.0
73	3	5.967e+04	0.0	-1.07	-970.10	0.0	85.61	491.41	0.0	217.72	0.0	0.0
		0.0	0.0	0.03	0.0	472.9	85.34	-478.69	0.0	217.72	0.0	0.0
73	4	4.848e+04	0.0	-0.81	-788.16	0.0	51.12	399.27	0.0	109.08	0.0	0.0
		0.0	0.0	0.01	0.0	472.9	50.90	-388.89	0.0	109.08	0.0	0.0
73	5	2.178e+04	0.0	-0.45	-355.38	0.0	-106.81	179.80	0.0	145.15	0.0	0.0
		0.0	0.0	0.02	0.0	472.9	-106.91	-175.57	0.0	145.15	0.0	0.0
73	7	2.178e+04	0.0	-0.45	-355.38	0.0	-110.94	179.80	0.0	144.96	0.0	0.0
		0.0	0.0	0.01	0.0	472.9	-111.04	-175.57	0.0	144.96	0.0	0.0
73	8	2.178e+04	0.0	-0.44	-355.38	0.0	188.19	179.80	0.0	152.63	0.0	0.0
		0.0	0.0	0.02	0.0	472.9	188.09	-175.57	0.0	152.63	0.0	0.0
73	9	2.178e+04	0.0	-0.45	-355.38	0.0	122.02	179.80	0.0	155.53	0.0	0.0
		0.0	0.0	0.02	0.0	472.9	121.92	-175.57	0.0	155.53	0.0	0.0
73	10	2.178e+04	0.0	-0.44	-355.38	0.0	-29.12	179.80	0.0	142.14	0.0	0.0
		0.0	0.0	0.01	0.0	472.9	-29.22	-175.57	0.0	142.14	0.0	0.0
73	12	2.178e+04	0.0	-0.44	-355.38	0.0	-15.38	179.80	0.0	143.28	0.0	0.0
		0.0	0.0	0.02	0.0	472.9	-15.48	-175.57	0.0	143.28	0.0	0.0
74	1	7.774e+04	0.0	-1.34	-1344.08	0.0	102.60	681.81	0.0	182.64	0.0	0.0
		0.0	0.0	0.03	0.0	443.4	100.27	-662.27	0.0	182.64	0.0	0.0
74	2	6.794e+04	0.0	-1.05	-1174.29	0.0	65.05	595.74	0.0	89.06	0.0	0.0
		0.0	0.0	0.02	0.0	443.4	63.01	-578.55	0.0	89.06	0.0	0.0
74	4	4.250e+04	0.0	-0.72	-735.46	0.0	55.24	372.96	0.0	94.98	0.0	0.0
		0.0	0.0	0.02	0.0	443.4	53.97	-362.50	0.0	94.98	0.0	0.0
74	5	1.910e+04	0.0	-0.49	-331.76	0.0	-49.17	168.01	0.0	122.73	0.0	0.0
		0.0	0.0	0.02	0.0	443.4	-49.74	-163.75	0.0	122.73	0.0	0.0
74	7	1.910e+04	0.0	-0.49	-331.76	0.0	-56.25	168.01	0.0	122.66	0.0	0.0
		0.0	0.0	0.02	0.0	443.4	-56.83	-163.75	0.0	122.66	0.0	0.0
74	8	1.910e+04	0.0	-0.48	-331.76	0.0	141.22	168.01	0.0	134.22	0.0	0.0
		0.0	0.0	0.03	0.0	443.4	140.65	-163.75	0.0	134.22	0.0	0.0

74	13	1.910e+04	0.0	-0.49	-331.76	0.0	-40.22	168.01	0.0	122.53	0.0	0.0
		0.0	0.0	0.02	0.0	443.4	-40.79	-163.75	0.0	122.53	0.0	0.0
74	17	1.910e+04	0.0	-0.49	-331.76	0.0	111.52	168.01	0.0	134.35	0.0	0.0
		0.0	0.0	0.03	0.0	443.4	110.95	-163.75	0.0	134.35	0.0	0.0
74	18	1.910e+04	0.0	-0.48	-331.76	0.0	-6.88	168.01	0.0	122.55	0.0	0.0
		0.0	0.0	0.02	0.0	443.4	-7.45	-163.75	0.0	122.55	0.0	0.0
75	1	6.754e+04	0.0	-1.17	-1248.77	0.0	95.67	634.04	0.0	68.97	0.0	0.0
		0.0	0.0	0.04	0.0	413.5	93.51	-614.73	0.0	68.97	0.0	0.0
75	3	4.544e+04	0.0	-0.95	-841.15	0.0	87.44	426.91	0.0	71.79	0.0	0.0
		0.0	0.0	0.04	0.0	413.5	85.98	-414.24	0.0	71.79	0.0	0.0
75	4	3.692e+04	0.0	-0.63	-683.37	0.0	51.41	346.85	0.0	35.51	0.0	0.0
		0.0	0.0	0.02	0.0	413.5	50.22	-336.52	0.0	35.51	0.0	0.0
75	5	1.659e+04	0.0	-0.52	-308.38	0.0	-16.10	156.30	0.0	41.62	0.0	0.0
		0.0	0.0	0.02	0.0	413.5	-16.63	-152.08	0.0	41.62	0.0	0.0
75	7	1.659e+04	0.0	-0.52	-308.38	0.0	-27.25	156.30	0.0	41.65	0.0	0.0
		0.0	0.0	0.02	0.0	413.5	-27.78	-152.08	0.0	41.65	0.0	0.0
75	9	1.659e+04	0.0	-0.53	-308.38	0.0	118.37	156.30	0.0	53.08	0.0	0.0
		0.0	0.0	0.03	0.0	413.5	117.84	-152.08	0.0	53.08	0.0	0.0
75	11	1.659e+04	0.0	-0.52	-308.38	0.0	109.07	156.30	0.0	52.90	0.0	0.0
		0.0	0.0	0.03	0.0	413.5	108.53	-152.08	0.0	52.90	0.0	0.0
75	17	1.659e+04	0.0	-0.53	-308.38	0.0	117.85	156.30	0.0	53.08	0.0	0.0
		0.0	0.0	0.03	0.0	413.5	117.31	-152.08	0.0	53.08	0.0	0.0
75	18	1.659e+04	0.0	-0.51	-308.38	0.0	-16.34	156.30	0.0	45.19	0.0	0.0
		0.0	0.0	0.02	0.0	413.5	-16.88	-152.08	0.0	45.19	0.0	0.0
76	1	5.804e+04	0.0	-0.98	-1153.51	0.0	64.05	586.28	0.0	-84.95	0.0	0.0
		0.0	0.0	0.03	0.0	383.6	62.05	-567.22	0.0	-84.95	0.0	0.0
76	2	5.072e+04	0.0	-0.69	-1007.73	0.0	38.36	512.25	0.0	-42.97	0.0	0.0
		0.0	0.0	0.02	0.0	383.6	36.61	-495.49	0.0	-42.97	0.0	0.0
76	4	3.173e+04	0.0	-0.52	-631.30	0.0	34.07	320.75	0.0	-44.87	0.0	0.0
		0.0	0.0	0.02	0.0	383.6	32.97	-310.55	0.0	-44.87	0.0	0.0
76	5	1.426e+04	0.0	-0.50	-284.99	0.0	20.54	144.58	0.0	-67.64	0.0	0.0
		0.0	0.0	0.02	0.0	383.6	20.05	-140.42	0.0	-67.64	0.0	0.0
76	9	1.426e+04	0.0	-0.51	-284.99	0.0	95.04	144.58	0.0	-57.43	0.0	0.0
		0.0	0.0	0.03	0.0	383.6	94.55	-140.42	0.0	-57.43	0.0	0.0
76	10	1.426e+04	0.0	-0.48	-284.99	0.0	-21.06	144.58	0.0	-60.37	0.0	0.0
		0.0	0.0	0.02	0.0	383.6	-21.55	-140.42	0.0	-60.37	0.0	0.0
76	15	1.426e+04	0.0	-0.50	-284.99	0.0	17.19	144.58	0.0	-67.41	0.0	0.0
		0.0	0.0	0.02	0.0	383.6	16.70	-140.42	0.0	-67.41	0.0	0.0
77	1	4.926e+04	0.0	-0.73	-1058.24	0.0	66.50	538.50	0.0	-223.38	0.0	0.0
		0.0	0.0	0.03	0.0	353.7	64.66	-519.74	0.0	-223.38	0.0	0.0
77	3	3.315e+04	0.0	-0.62	-712.99	0.0	63.01	362.64	0.0	-231.37	0.0	0.0
		0.0	0.0	0.03	0.0	353.7	61.78	-350.35	0.0	-231.37	0.0	0.0
77	4	2.693e+04	0.0	-0.39	-579.23	0.0	34.85	294.63	0.0	-116.68	0.0	0.0
		0.0	0.0	0.01	0.0	353.7	33.85	-284.59	0.0	-116.68	0.0	0.0
77	5	1.211e+04	0.0	-0.39	-261.61	0.0	102.32	132.85	0.0	-167.37	0.0	0.0
		0.0	0.0	0.01	0.0	353.7	101.87	-128.76	0.0	-167.37	0.0	0.0
77	11	1.211e+04	0.0	-0.39	-261.61	0.0	83.72	132.85	0.0	-159.52	0.0	0.0
		0.0	0.0	0.02	0.0	353.7	83.27	-128.76	0.0	-159.52	0.0	0.0
77	13	1.211e+04	0.0	-0.39	-261.61	0.0	108.07	132.85	0.0	-167.18	0.0	0.0
		0.0	0.0	0.01	0.0	353.7	107.61	-128.76	0.0	-167.18	0.0	0.0
77	14	1.211e+04	0.0	-0.38	-261.61	0.0	-46.63	132.85	0.0	-149.39	0.0	0.0
		0.0	0.0	0.02	0.0	353.7	-47.08	-128.76	0.0	-149.39	0.0	0.0
77	17	1.211e+04	0.0	-0.39	-261.61	0.0	93.27	132.85	0.0	-159.62	0.0	0.0
		0.0	0.0	0.02	0.0	353.7	92.81	-128.76	0.0	-159.62	0.0	0.0
78	1	4.119e+04	0.0	-0.46	-962.98	0.0	96.35	490.69	0.0	-269.93	0.0	0.0
		0.0	0.0	0.02	0.0	323.9	94.68	-472.29	0.0	-269.93	0.0	0.0
78	3	2.772e+04	0.0	-0.38	-648.91	0.0	84.30	330.49	0.0	-285.10	0.0	0.0
		0.0	0.0	0.02	0.0	323.9	83.17	-318.43	0.0	-285.10	0.0	0.0
78	4	2.252e+04	0.0	-0.24	-527.15	0.0	51.69	268.50	0.0	-139.57	0.0	0.0
		0.0	0.0	7.96e-03	0.0	323.9	50.78	-258.66	0.0	-139.57	0.0	0.0
78	5	1.013e+04	0.0	-0.21	-238.23	0.0	178.21	121.12	0.0	-206.00	0.0	0.0
		0.0	0.0	5.76e-03	0.0	323.9	177.80	-117.11	0.0	-206.00	0.0	0.0
78	9	1.013e+04	0.0	-0.22	-238.23	0.0	97.20	121.12	0.0	-201.94	0.0	0.0
		0.0	0.0	0.01	0.0	323.9	96.79	-117.11	0.0	-201.94	0.0	0.0
78	13	1.013e+04	0.0	-0.21	-238.23	0.0	180.81	121.12	0.0	-205.88	0.0	0.0
		0.0	0.0	4.97e-03	0.0	323.9	180.40	-117.11	0.0	-205.88	0.0	0.0
78	14	1.013e+04	0.0	-0.21	-238.23	0.0	-107.53	121.12	0.0	-189.96	0.0	0.0
		0.0	0.0	0.01	0.0	323.9	-107.94	-117.11	0.0	-189.96	0.0	0.0
78	19	1.013e+04	0.0	-0.22	-238.23	0.0	79.62	121.12	0.0	-201.96	0.0	0.0
		0.0	0.0	9.82e-03	0.0	323.9	79.20	-117.11	0.0	-201.96	0.0	0.0
78	20	1.013e+04	0.0	-0.21	-238.23	0.0	17.55	121.12	0.0	-193.87	0.0	0.0
		0.0	0.0	0.01	0.0	323.9	17.14	-117.11	0.0	-193.87	0.0	0.0
79	1	1.794e+04	0.0	-0.14	-468.29	0.0	185.18	223.37	0.0	-117.10	0.0	0.0
		0.0	0.0	4.48e-03	0.0	294.0	184.37	-244.92	0.0	-117.10	0.0	0.0
79	2	1.559e+04	0.0	-0.11	-406.72	0.0	135.74	193.88	0.0	-33.73	0.0	0.0
		0.0	0.0	2.85e-03	0.0	294.0	135.04	-212.83	0.0	-33.73	0.0	0.0
79	4	9996.18	0.0	-0.08	-261.38	0.0	101.46	124.92	0.0	-56.71	0.0	0.0
		0.0	0.0	2.38e-03	0.0	294.0	101.01	-136.45	0.0	-56.71	0.0	0.0

79	5	4851.21	0.0	-0.05	-127.67	0.0	18.48	61.49	0.0	-110.86	0.0	0.0
		0.0	0.0	-7.19e-04	0.0	294.0	18.26	-66.19	0.0	-110.86	0.0	0.0
79	9	4851.21	0.0	-0.05	-127.67	0.0	164.80	61.49	0.0	-111.90	0.0	0.0
		0.0	0.0	3.64e-03	0.0	294.0	164.58	-66.19	0.0	-111.90	0.0	0.0
79	10	4851.21	0.0	-0.05	-127.67	0.0	-5.28	61.49	0.0	-99.57	0.0	0.0
		0.0	0.0	9.82e-04	0.0	294.0	-5.50	-66.19	0.0	-99.57	0.0	0.0
79	12	4851.21	0.0	-0.05	-127.67	0.0	-5.17	61.49	0.0	-99.20	0.0	0.0
		0.0	0.0	3.82e-03	0.0	294.0	-5.39	-66.19	0.0	-99.20	0.0	0.0
79	19	4851.21	0.0	-0.05	-127.67	0.0	163.40	61.49	0.0	-112.26	0.0	0.0
		0.0	0.0	8.16e-04	0.0	294.0	163.17	-66.19	0.0	-112.26	0.0	0.0
79	20	4851.21	0.0	-0.05	-127.67	0.0	-3.84	61.49	0.0	-99.22	0.0	0.0
		0.0	0.0	3.82e-03	0.0	294.0	-4.07	-66.19	0.0	-99.22	0.0	0.0
80	1	4.923e+04	0.0	-0.78	-793.94	0.0	-221.79	407.43	0.0	15.76	0.0	0.0
		0.0	0.0	6.14e-03	0.0	483.3	-221.85	-386.51	0.0	15.76	0.0	0.0
80	2	4.279e+04	0.0	-0.68	-689.81	0.0	-164.88	354.10	0.0	11.63	0.0	0.0
		0.0	0.0	3.90e-03	0.0	483.3	-164.93	-335.71	0.0	11.63	0.0	0.0
80	4	2.742e+04	0.0	-0.43	-442.58	0.0	-134.24	226.89	0.0	8.54	0.0	0.0
		0.0	0.0	3.27e-03	0.0	483.3	-134.27	-215.70	0.0	8.54	0.0	0.0
80	5	1.327e+04	0.0	-0.21	-215.15	0.0	-223.55	109.86	0.0	3.61	0.0	0.0
		0.0	0.0	-6.40e-04	0.0	483.3	-223.56	-105.29	0.0	3.61	0.0	0.0
80	8	1.327e+04	0.0	-0.21	-215.15	0.0	-40.04	109.86	0.0	9.62	0.0	0.0
		0.0	0.0	7.45e-03	0.0	483.3	-40.06	-105.29	0.0	9.62	0.0	0.0
80	9	1.327e+04	0.0	-0.21	-215.15	0.0	-69.50	109.86	0.0	7.16	0.0	0.0
		0.0	0.0	8.61e-03	0.0	483.3	-69.52	-105.29	0.0	7.16	0.0	0.0
80	10	1.327e+04	0.0	-0.21	-215.15	0.0	-159.60	109.86	0.0	5.80	0.0	0.0
		0.0	0.0	-2.31e-03	0.0	483.3	-159.62	-105.29	0.0	5.80	0.0	0.0
80	14	1.327e+04	0.0	-0.21	-215.15	0.0	-15.56	109.86	0.0	9.82	0.0	0.0
		0.0	0.0	7.89e-03	0.0	483.3	-15.58	-105.29	0.0	9.82	0.0	0.0
81	1	-70.54	2128.52	6.74e-04	-72.80	0.0	-110.62	-3271.62	-2446.33	-5.113e+05	2128.52	-70.54
		-5.300e+04	-3.701e+04	4.75e-04	0.0	16.0	-110.62	-3344.42	-2446.33	-5.113e+05	-3.701e+04	-5.300e+04
81	3	-17.08	1859.29	5.68e-04	-72.80	0.0	-106.99	-2400.33	-1805.89	-3.735e+05	1859.29	-17.08
		-3.900e+04	-2.703e+04	3.42e-04	0.0	16.0	-106.99	-2473.13	-1805.89	-3.735e+05	-2.703e+04	-3.900e+04
81	4	-25.55	1303.43	4.05e-04	-56.00	0.0	-68.20	-1924.06	-1434.51	-2.998e+05	1303.43	-25.55
		-3.126e+04	-2.165e+04	2.72e-04	0.0	16.0	-68.20	-1980.06	-1434.51	-2.998e+05	-2.165e+04	-3.126e+04
81	5	-189.73	-5155.35	3.29e-03	-56.00	0.0	310.32	-1121.34	-931.94	-1.715e+05	-5155.35	-189.73
		-1.858e+04	-2.007e+04	3.39e-04	0.0	16.0	310.32	-1177.34	-931.94	-1.715e+05	-2.007e+04	-1.858e+04
81	6	262.83	7585.00	-2.64e-03	-56.00	0.0	-463.94	-1121.92	-764.46	-1.741e+05	7585.00	262.83
		-1.814e+04	-4646.34	-3.77e-05	0.0	16.0	-463.94	-1177.92	-764.46	-1.741e+05	-4646.34	-1.814e+04
81	12	81.17	2443.26	2.37e-04	-56.00	0.0	-131.81	-1190.79	-839.65	-2.247e+05	2443.26	81.17
		-1.942e+04	-1.099e+04	4.00e-04	0.0	16.0	-131.81	-1246.79	-839.65	-2.247e+05	-1.099e+04	-1.942e+04
82	1	1025.58	-2222.42	-1.19e-03	-72.80	0.0	186.89	-2666.26	-1580.69	-3.535e+05	-2222.42	1025.58
		-4.222e+04	-2.751e+04	8.68e-04	0.0	16.0	186.89	-2739.06	-1580.69	-3.535e+05	-2.751e+04	-4.222e+04
82	2	949.75	-1188.84	-6.49e-04	-56.00	0.0	120.98	-2272.57	-1332.69	-3.034e+05	-1188.84	949.75
		-3.586e+04	-2.251e+04	6.76e-04	0.0	16.0	120.98	-2328.57	-1332.69	-3.034e+05	-2.251e+04	-3.586e+04
82	4	534.05	-1319.13	-7.11e-04	-56.00	0.0	111.15	-1582.28	-930.25	-2.086e+05	-1319.13	534.05
		-2.523e+04	-1.620e+04	5.06e-04	0.0	16.0	111.15	-1638.28	-930.25	-2.086e+05	-1.620e+04	-2.523e+04
82	5	-5.06	-6409.12	2.89e-03	-56.00	0.0	387.42	-943.83	-606.92	-1.203e+05	-6409.12	-5.06
		-1.555e+04	-1.612e+04	4.58e-04	0.0	16.0	387.42	-999.83	-606.92	-1.203e+05	-1.612e+04	-1.555e+04
82	6	273.96	2902.41	-4.70e-03	-56.00	0.0	-146.34	-949.47	-515.01	-1.210e+05	2902.41	273.96
		-1.537e+04	-5338.03	2.94e-04	0.0	16.0	-146.34	-1005.47	-515.01	-1.210e+05	-5338.03	-1.537e+04
82	12	114.43	-680.67	-1.11e-03	-56.00	0.0	78.53	-1038.26	-624.72	-1.795e+05	-680.67	114.43
		-1.695e+04	-1.068e+04	6.39e-04	0.0	16.0	78.53	-1094.26	-624.72	-1.795e+05	-1.068e+04	-1.695e+04
83	1	-4.354e+04	4010.33	1.98e-03	-73.36	0.0	-306.93	-3404.34	-2177.28	-3.922e+05	4010.33	-4.354e+04
		-9.891e+04	-3.102e+04	4.02e-04	0.0	16.1	-307.22	-3477.70	-2177.28	-3.922e+05	-3.102e+04	-9.891e+04
83	4	-2.549e+04	2334.05	1.16e-03	-56.40	0.0	-177.54	-1993.99	-1270.34	-2.295e+05	2334.05	-2.549e+04
		-5.802e+04	-1.811e+04	2.28e-04	0.0	16.1	-177.76	-2050.39	-1270.34	-2.295e+05	-1.811e+04	-5.802e+04
83	7	-1.296e+04	-4955.48	4.80e-03	-56.35	0.0	286.92	-1099.11	-687.50	-1.160e+05	-4955.48	-1.296e+04
		-3.110e+04	-1.602e+04	2.61e-04	0.0	16.1	286.69	-1155.46	-687.50	-1.160e+05	-1.602e+04	-3.110e+04
83	8	-1.512e+04	6972.07	-3.56e-03	-56.35	0.0	-471.97	-1181.84	-865.10	-1.365e+05	6972.07	-1.512e+04
		-3.459e+04	-6948.38	1.26e-04	0.0	16.1	-472.20	-1238.20	-865.10	-1.365e+05	-6948.38	-3.459e+04
83	10	-2.148e+04	-546.60	1.28e-03	-56.35	0.0	9.81	-1296.35	-885.29	-1.919e+05	-546.60	-2.148e+04
		-4.280e+04	-1.479e+04	1.01e-04	0.0	16.1	9.59	-1352.70	-885.29	-1.919e+05	-1.479e+04	-4.280e+04
83	17	-6579.67	2756.08	-8.68e-05	-56.35	0.0	-212.98	-986.37	-740.18	-6.068e+04	2756.08	-6579.67
		-2.290e+04	-9154.17	3.16e-04	0.0	16.1	-213.21	-1042.73	-740.18	-6.068e+04	-9154.17	-2.290e+04
84	1	-212.64	3.931e+04	6.48e-04	-72.80	0.0	4.29	-3230.22	2461.46	6.173e+05	-75.28	-212.64
		-5.248e+04	-75.28	-1.47e-04	0.0	16.0	4.29	-3303.02	2461.46	6.173e+05	3.931e+04	-5.248e+04
84	2	-196.05	3.332e+04	5.29e-04	-56.00	0.0	-2.21	-2762.59	2098.70	5.279e+05	-256.58	-196.05
		-4.485e+04	-256.58	-1.33e-04	0.0	16.0	-2.21	-2818.59	2098.70	5.279e+05	3.332e+04	-4.485e+04
84	4	-117.55	2.292e+04	3.84e-04	-56.00	0.0	-2.51	-1894.23	1443.39	3.618e+05	-170.56	-117.55
		-3.087e+04	-170.56	-8.57e-05	0.0	16.0	-2.51	-1950.23	1443.39	3.618e+05	2.292e+04	-3.087e+04
84	5	106.77	2.430e+04	1.55e-03	-56.00	0.0	268.84	-1101.57	1040.43	2.115e+05	7649.86	106.77
		-1.797e+04	7649.86	-3.53e-04	0.0	16.0	268.84	-1157.57	1040.43	2.115e+05	2.430e+04	-1.797e+04
84	7	97.96	2.440e+04	1.56e-03	-56.00	0.0	269.38	-1102.73	1042.49	2.118e+05	7719.87	97.96
		-1.799e+04	7719.87	-3.57e-04	0.0	16.0	269.38	-1158.73	1042.49	2.118e+05	2.440e+04	-1.799e+04
84	8	-150.50	2514.82	-1.04e-03	-56.00	0.0	-269.17	-1085.56	640.27	2.059e+05	-7729.45	-150.50
		-1.797e+04	-7729.45	2.84e-04	0.0	16.0	-269.17	-1141.56	640.27	2.059e+05	2514.82	-1.797e+04
84	11	-71.85	1.500e+04	1.52e-04	-56.00	0.0	-43.48	-1182.97	1009.20	2.638e+05	-1142.99	-71.85
		-1.945e+04	-1142.99	-3.47e-04	0.0	16.0	-43.48	-1238.97	1009.20	2.638e+05	1.500e+04	-1.945e+04

85	1	-200.74	3.773e+04	3.76e-04	-89.53	0.0	6.87	-2761.05	2411.34	4.445e+05	-848.94	-200.74
		-4.509e+04	-848.94	-2.63e-04	0.0	16.0	6.87	-2850.58	2411.34	4.445e+05	3.773e+04	-4.509e+04
85	2	-190.72	3.209e+04	2.95e-04	-70.71	0.0	-8.26	-2352.99	2066.42	3.777e+05	-968.33	-190.72
		-3.840e+04	-968.33	-2.39e-04	0.0	16.0	-8.26	-2423.70	2066.42	3.777e+05	3.209e+04	-3.840e+04
85	3	-134.42	2.768e+04	2.55e-04	-83.77	0.0	24.80	-2040.70	1752.33	3.295e+05	-354.29	-134.42
		-3.346e+04	-354.29	-1.81e-04	0.0	16.0	24.80	-2124.47	1752.33	3.295e+05	2.768e+04	-3.346e+04
85	4	-124.41	2.205e+04	1.73e-04	-64.95	0.0	9.69	-1632.63	1407.49	2.627e+05	-474.00	-124.41
		-2.677e+04	-474.00	-1.57e-04	0.0	16.0	9.69	-1697.58	1407.49	2.627e+05	2.205e+04	-2.677e+04
85	5	294.52	2.556e+04	2.74e-03	-59.65	0.0	838.35	-969.23	961.54	1.581e+05	1.018e+04	294.52
		-1.569e+04	1.018e+04	-5.26e-04	0.0	16.0	838.35	-1028.88	961.54	1.581e+05	2.556e+04	-1.569e+04
85	6	-408.58	560.20	-2.57e-03	-59.65	0.0	-782.68	-970.93	669.60	1.567e+05	-1.015e+04	-408.58
		-1.642e+04	-1.015e+04	3.81e-04	0.0	16.0	-782.68	-1030.58	669.60	1.567e+05	560.20	-1.642e+04
85	11	-139.03	1.839e+04	6.84e-05	-59.65	0.0	-147.67	-1066.61	1280.66	2.037e+05	-2098.93	-139.03
		-1.768e+04	-2098.93	-2.45e-04	0.0	16.0	-147.67	-1126.27	1280.66	2.037e+05	1.839e+04	-1.768e+04
86	1	4.233e+04	2.279e+04	3.95e-04	-72.59	0.0	145.62	2713.30	-1463.73	-4.448e+05	2.279e+04	-299.05
		-299.05	-519.02	2.54e-04	0.0	15.9	145.62	2640.71	-1463.73	-4.448e+05	-519.02	4.233e+04
86	3	3.133e+04	1.647e+04	2.52e-04	-72.54	0.0	98.96	2027.40	-1074.50	-3.294e+05	1.647e+04	-377.31
		-377.31	-645.43	1.97e-04	0.0	15.9	98.96	1954.86	-1074.50	-3.294e+05	-645.43	3.133e+04
86	4	2.498e+04	1.331e+04	1.79e-04	-55.81	0.0	84.19	1617.82	-856.37	-2.624e+05	1.331e+04	-336.94
		-336.94	-325.35	1.45e-04	0.0	15.9	84.19	1562.01	-856.37	-2.624e+05	-325.35	2.498e+04
86	5	1.459e+04	-8823.77	2.69e-03	-55.76	0.0	-315.16	1000.81	-112.91	-1.570e+05	-8823.77	-904.47
		-904.47	-1.062e+04	-3.80e-04	0.0	15.9	-315.16	945.04	-112.91	-1.570e+05	-1.062e+04	1.459e+04
86	6	1.523e+04	2.421e+04	-2.55e-03	-55.76	0.0	401.21	975.06	-914.01	-1.566e+05	2.421e+04	147.18
		147.18	9650.51	5.90e-04	0.0	15.9	401.21	919.29	-914.01	-1.566e+05	9650.51	1.523e+04
86	9	1.933e+04	2.004e+04	-6.58e-05	-55.76	0.0	135.01	1068.02	-1243.59	-2.033e+05	2.004e+04	2764.41
		2764.41	232.58	2.51e-04	0.0	15.9	135.01	1012.25	-1243.59	-2.033e+05	232.58	1.933e+04
86	20	1.051e+04	-2159.19	2.63e-04	-55.76	0.0	-83.12	912.06	250.09	-1.109e+05	-6141.81	-3571.28
		-3571.28	-6141.81	9.15e-05	0.0	15.9	-83.12	856.30	250.09	-1.109e+05	-2159.19	1.051e+04
87	1	387.18	3.202e+04	2.75e-04	-73.69	0.0	-30.05	-2637.38	2036.82	4.402e+05	-569.90	387.18
		-4.240e+04	-569.90	-5.15e-05	0.0	16.0	-30.05	-2711.07	2036.82	4.402e+05	3.202e+04	-4.240e+04
87	2	307.66	2.555e+04	2.39e-04	-56.78	0.0	-42.92	-2248.79	1656.98	3.749e+05	-964.74	307.66
		-3.613e+04	-964.74	-9.94e-05	0.0	16.0	-42.92	-2305.58	1656.98	3.749e+05	2.555e+04	-3.613e+04
87	3	297.41	2.480e+04	2.01e-04	-73.38	0.0	-9.91	-1947.18	1554.69	3.237e+05	-71.76	297.41
		-3.145e+04	-71.76	-6.20e-06	0.0	16.0	-9.91	-2020.56	1554.69	3.237e+05	2.480e+04	-3.145e+04
87	5	586.81	3.640e+04	1.43e-03	-56.19	0.0	686.72	-931.22	1378.61	1.624e+05	1.434e+04	586.81
		-1.476e+04	1.434e+04	-5.14e-04	0.0	16.0	686.72	-987.42	1378.61	1.624e+05	3.640e+04	-1.476e+04
87	6	-295.03	-1.167e+04	-1.23e-03	-56.19	0.0	-679.37	-917.32	142.16	1.408e+05	-1.394e+04	-295.03
		-1.542e+04	-1.394e+04	5.66e-04	0.0	16.0	-679.37	-973.51	142.16	1.408e+05	-1.167e+04	-1.542e+04
87	9	104.57	1.667e+04	-1.53e-04	-56.19	0.0	-109.60	-1041.29	1168.31	2.149e+05	-2027.52	104.57
		-1.701e+04	-2027.52	1.70e-04	0.0	16.0	-109.60	-1097.49	1168.31	2.149e+05	1.667e+04	-1.701e+04
87	13	574.97	3.640e+04	1.39e-03	-56.19	0.0	676.59	-930.29	1388.40	1.620e+05	1.419e+04	574.97
		-1.476e+04	1.419e+04	-5.37e-04	0.0	16.0	676.59	-986.49	1388.40	1.620e+05	3.640e+04	-1.476e+04
88	1	-208.43	3.023e+04	-4.08e-04	-73.10	0.0	17.42	2712.86	-1947.64	-4.394e+05	3.023e+04	-4.303e+04
		-4.303e+04	-932.18	4.82e-04	0.0	16.0	17.42	2639.77	-1947.64	-4.394e+05	-932.18	-208.43
88	2	-155.39	2.636e+04	-3.42e-04	-56.26	0.0	25.42	2303.07	-1666.20	-3.741e+05	2.636e+04	-3.655e+04
		-3.655e+04	-301.67	3.46e-04	0.0	16.0	25.42	2246.80	-1666.20	-3.741e+05	-301.67	-155.39
88	3	-164.88	2.176e+04	-3.06e-04	-72.99	0.0	5.41	2024.25	-1425.14	-3.230e+05	2.176e+04	-3.197e+04
		-3.197e+04	-1041.60	4.04e-04	0.0	16.0	5.41	1951.26	-1425.14	-3.230e+05	-1041.60	-164.88
88	4	-111.84	1.788e+04	-2.41e-04	-56.16	0.0	13.45	1614.48	-1142.92	-2.577e+05	1.788e+04	-2.549e+04
		-2.549e+04	-410.81	2.68e-04	0.0	16.0	13.45	1558.32	-1142.92	-2.577e+05	-410.81	-111.84
88	5	-519.52	-1.091e+04	1.18e-03	-56.06	0.0	-437.69	1008.15	-236.90	-1.605e+05	-1.091e+04	-1.620e+04
		-1.620e+04	-1.470e+04	-2.97e-04	0.0	16.0	-437.69	952.09	-236.90	-1.605e+05	-1.470e+04	-519.52
88	6	354.77	3.080e+04	-1.47e-03	-56.06	0.0	432.87	957.81	-1097.14	-1.419e+05	3.080e+04	-1.452e+04
		-1.452e+04	1.325e+04	7.31e-04	0.0	16.0	432.87	901.74	-1097.14	-1.419e+05	1.325e+04	354.77
88	8	335.29	3.129e+04	-1.48e-03	-56.06	0.0	419.70	956.69	-1154.63	-1.422e+05	3.129e+04	-1.452e+04
		-1.452e+04	1.282e+04	7.26e-04	0.0	16.0	419.70	900.62	-1154.63	-1.422e+05	1.282e+04	335.29
88	9	-42.26	2.020e+04	-4.27e-04	-56.06	0.0	70.25	1102.24	-1192.89	-2.144e+05	2.020e+04	-1.723e+04
		-1.723e+04	1109.76	4.86e-04	0.0	16.0	70.25	1046.18	-1192.89	-2.144e+05	1109.76	-42.26
89	1	-1.278e+05	72.08	-0.36	-144.10	0.0	-1963.86	2998.39	-0.76	-214.99	72.08	-5.349e+05
		-5.349e+05	-33.00	9.07e-04	0.0	139.1	-1968.59	2854.29	-0.76	-214.99	-33.00	-1.278e+05
89	2	-1.091e+05	116.42	-0.31	-116.18	0.0	-1676.58	2561.66	-1.47	-191.10	116.42	-4.575e+05
		-4.575e+05	-88.32	8.70e-04	0.0	139.1	-1680.40	2445.49	-1.47	-191.10	-88.32	-1.091e+05
89	4	-7.504e+04	35.73	-0.21	-99.50	0.0	-1151.98	1763.47	-0.50	-114.07	35.73	-3.135e+05
		-3.135e+05	-34.44	5.71e-04	0.0	139.1	-1155.25	1663.97	-0.50	-114.07	-34.44	-7.504e+04
89	7	-4.426e+04	1886.83	-0.12	-84.16	0.0	-821.57	1043.07	23.85	-190.62	1886.83	-4.426e+04
		-1.835e+05	-1431.48	-7.43e-03	0.0	139.1	-824.33	958.91	23.85	-190.62	-1431.48	-1.835e+05
89	8	-4.335e+04	1307.64	-0.12	-84.16	0.0	-515.28	1012.92	-22.19	136.05	1307.64	-1.784e+05
		-1.784e+05	-1780.31	7.99e-03	0.0	139.1	-518.04	928.76	-22.19	136.05	-1780.31	-4.335e+04
89	11	-8.360e+04	64.42	-0.11	-84.16	0.0	-757.40	1120.44	0.06	-30.06	64.42	-8.360e+04
		-2.336e+05	55.87	-1.51e-03	0.0	139.1	-760.17	1036.28	0.06	-30.06	55.87	-2.336e+05
89	12	-3866.52	18.37	-0.14	-84.16	0.0	-582.70	936.70	1.35	-39.02	18.37	-3866.52
		-1.283e+05	-169.35	2.08e-03	0.0	139.1	-585.46	852.54	1.35	-39.02	-169.35	-1.283e+05
89	15	-4.463e+04	1832.03	-0.12	-84.16	0.0	-827.91	1043.19	23.48	-185.24	1832.03	-4.463e+04
		-1.839e+05	-1435.45	-7.60e-03	0.0	139.1	-830.68	959.03	23.48	-185.24	-1435.45	-1.839e+05
89	16	-4.297e+04	1312.66	-0.12	-84.16	0.0	-508.88	1012.68	-21.86	131.83	1312.66	-4.297e+04
		-1.780e+05	-1728.70	8.16e-03	0.0	139.1	-511.65	928.52	-21.86	131.83	-1728.70	-1.780e+05
90	1	2.758e+04	1.168e+04	-3.73e-05	-303.12	0.0	-533.06	592.45	-32.46	9843.01	1.168e+04	1.657e+04
		1.657e+04	1.087e+04	-1.25e-04	0.0	25.0	-532.43	289.33	-32.46	9843.01	1.087e+04	2.758e+04

90	3	1.755e+04	7846.41	-3.42e-04	-307.72	0.0	-450.06	870.72	-27.73	9723.82	7846.41	-344.74
		-344.74	7154.43	-9.86e-05	0.0	25.0	-449.41	563.00	-27.73	9723.82	7154.43	1.755e+04
90	4	1.611e+04	7272.27	-1.01e-04	-202.84	0.0	-320.22	457.80	-34.40	7666.40	7272.27	7212.22
		7212.22	6413.86	-6.49e-05	0.0	25.0	-319.79	254.96	-34.40	7666.40	6413.86	1.611e+04
90	11	-1.536e+05	1.204e+04	1.68e-03	-213.99	0.0	-1141.34	2338.00	-158.73	7552.30	1.204e+04	-2.093e+05
		-2.093e+05	8082.73	-4.95e-04	0.0	25.0	-1140.89	2124.01	-158.73	7552.30	8082.73	-1.536e+05
90	12	1.890e+05	-2948.89	-2.53e-03	-213.99	0.0	627.87	-825.70	115.96	7344.20	-5842.22	1.890e+05
		1.658e+05	-5842.22	3.93e-04	0.0	25.0	628.32	-1039.69	115.96	7344.20	-2948.89	1.658e+05
90	15	3829.55	-1.263e+04	-5.45e-04	-213.99	0.0	-355.39	789.99	561.62	-1136.54	-2.664e+04	-1.321e+04
		-1.321e+04	-2.664e+04	-1.20e-03	0.0	25.0	-354.94	576.00	561.62	-1136.54	-1.263e+04	3829.55
90	16	8051.40	3.209e+04	-3.01e-04	-213.99	0.0	-162.00	723.51	-594.07	1.579e+04	3.209e+04	-7333.45
		-7333.45	1.727e+04	1.07e-03	0.0	25.0	-161.55	509.52	-594.07	1.579e+04	1.727e+04	8051.40
90	19	-1.526e+05	1.177e+04	1.66e-03	-213.99	0.0	-1157.90	2328.58	-153.98	7614.33	1.177e+04	-2.080e+05
		-2.080e+05	7924.54	-4.75e-04	0.0	25.0	-1157.45	2114.59	-153.98	7614.33	7924.54	-1.526e+05
90	20	1.878e+05	-2763.22	-2.51e-03	-213.99	0.0	644.62	-816.32	110.91	7287.19	-5530.42	1.878e+05
		1.648e+05	-5530.42	3.74e-04	0.0	25.0	645.07	-1030.31	110.91	7287.19	-2763.22	1.648e+05
92	1	816.07	697.33	2.43e-03	-63.03	0.0	154.50	6.34	-31.27	-90.11	697.33	806.45
		-0.84	-305.41	-4.48e-05	0.0	32.1	154.66	-56.69	-31.27	-90.11	-305.41	-0.84
92	2	699.10	374.69	2.05e-03	-48.49	0.0	132.45	2.09	-12.91	-93.67	374.69	697.94
		-12.44	-39.16	-6.04e-05	0.0	32.1	132.57	-46.40	-12.91	-93.67	-39.16	-12.44
92	3	596.39	731.39	1.72e-03	-63.03	0.0	110.57	16.34	-36.72	132.95	731.39	528.58
		41.88	-446.10	-1.69e-05	0.0	32.1	110.73	-46.69	-36.72	132.95	-446.10	41.88
92	4	468.38	408.60	1.34e-03	-48.49	0.0	88.72	12.09	-18.34	129.31	408.60	420.07
		30.28	-179.63	-3.30e-05	0.0	32.1	88.84	-36.40	-18.34	129.31	-179.63	30.28
92	5	427.24	7557.14	6.08e-03	-48.49	0.0	166.35	4.90	-468.21	506.95	7557.14	419.77
		-200.61	-7456.86	-1.19e-03	0.0	32.1	166.47	-43.59	-468.21	506.95	-7456.86	-200.61
92	7	422.92	7413.06	6.09e-03	-48.49	0.0	196.07	5.28	-458.96	506.44	7413.06	413.90
		-194.20	-7304.46	-1.19e-03	0.0	32.1	196.19	-43.21	-458.96	506.44	-7304.46	-194.20
92	8	374.75	6470.81	-4.65e-03	-48.49	0.0	-124.60	36.67	398.60	106.93	-6311.00	-69.91
		-69.91	-6311.00	1.21e-03	0.0	32.1	-124.48	-11.81	398.60	106.93	6470.81	328.63
93	1	84.78	1145.59	-2.11e-03	-62.96	0.0	299.53	35.61	-57.43	-2534.02	1145.59	-237.78
		-237.78	-694.10	4.97e-04	0.0	32.0	299.42	-27.35	-57.43	-2534.02	-694.10	-105.49
93	3	124.37	1155.55	-1.56e-03	-62.96	0.0	237.23	34.03	-61.69	-1843.89	1155.55	-169.75
		-169.75	-820.32	4.42e-04	0.0	32.0	237.12	-28.93	-61.69	-1843.89	-820.32	-88.02
93	4	98.03	568.22	-1.23e-03	-48.43	0.0	167.12	27.24	-27.30	-1445.83	568.22	-147.31
		-147.31	-306.21	2.68e-04	0.0	32.0	167.04	-21.19	-27.30	-1445.83	-306.21	-50.50
93	5	270.23	9221.95	2.13e-03	-48.43	0.0	25.10	5.59	-569.02	-387.25	9221.95	259.97
		-336.69	-9004.33	-1.05e-03	0.0	32.0	25.02	-42.84	-569.02	-387.25	-9004.33	-336.69
93	6	248.71	7747.91	-3.57e-03	-48.43	0.0	203.13	44.81	480.60	-1271.33	7747.91	-415.04
		-415.04	-7646.27	1.55e-03	0.0	32.0	203.05	-3.63	480.60	-1271.33	-7646.27	-415.04
93	17	118.37	238.16	-1.11e-03	-48.43	0.0	231.78	27.32	6.53	-1291.75	238.16	-128.52
		-128.52	28.84	7.26e-04	0.0	32.0	231.70	-21.11	6.53	-1291.75	28.84	-28.94
93	18	148.91	1487.65	-3.42e-04	-48.43	0.0	9.14	23.21	-91.32	-367.71	1487.65	-28.87
		-61.12	-1437.52	-2.13e-04	0.0	32.0	9.06	-25.22	-91.32	-367.71	-1437.52	-61.12
94	1	194.45	1173.01	-3.19e-03	-62.86	0.0	129.04	28.93	-74.55	-1127.25	1173.01	-17.88
		-97.90	-1210.97	2.64e-04	0.0	32.0	129.04	-33.93	-74.55	-1127.25	-1210.97	-97.90
94	3	207.14	1140.89	-2.30e-03	-62.86	0.0	101.41	28.52	-72.36	-795.10	1140.89	0.49
		-92.52	-1173.15	2.26e-04	0.0	32.0	101.41	-34.34	-72.36	-795.10	-1173.15	-92.52
94	4	162.97	611.61	-1.80e-03	-48.35	0.0	71.94	22.82	-38.91	-593.56	611.61	-8.58
		-52.03	-632.72	1.39e-04	0.0	32.0	71.94	-25.53	-38.91	-593.56	-632.72	-52.03
94	8	141.14	2048.01	-4.51e-03	-48.35	0.0	-57.68	27.99	129.23	-1209.63	2048.01	-117.81
		-117.81	-2084.47	1.23e-03	0.0	32.0	-57.68	-20.36	129.23	-1209.63	-2084.47	4.31
94	13	229.88	3722.69	2.45e-03	-48.35	0.0	180.01	15.61	-232.79	613.69	3722.69	149.36
		-124.50	-3721.67	-1.02e-03	0.0	32.0	180.01	-32.74	-232.79	613.69	-3721.67	-124.50
94	14	140.60	2213.37	-4.45e-03	-48.35	0.0	-31.80	28.35	139.61	-1240.76	2213.37	-124.72
		-124.72	-2251.01	1.28e-03	0.0	32.0	-31.80	-20.00	139.61	-1240.76	-2251.01	8.71
94	15	230.17	3655.27	2.49e-03	-48.35	0.0	204.80	15.76	-228.67	644.72	3655.27	148.19
		-120.98	-3657.35	-1.04e-03	0.0	32.0	204.80	-32.59	-228.67	644.72	-3657.35	-120.98
95	1	242.72	436.66	-3.46e-03	-62.87	0.0	-43.27	33.45	-27.84	101.10	436.66	-41.00
		-41.00	-453.90	2.40e-04	0.0	32.0	-43.29	-29.42	-27.84	101.10	-453.90	23.48
95	3	241.90	446.92	-2.46e-03	-62.87	0.0	-39.34	32.17	-28.39	91.27	446.92	-21.15
		-21.15	-461.25	1.99e-04	0.0	32.0	-39.35	-30.70	-28.39	91.27	-461.25	2.22
95	4	190.66	219.75	-1.91e-03	-48.36	0.0	-24.06	25.27	-14.05	104.94	219.75	-20.10
		-20.10	-229.51	1.24e-04	0.0	32.0	-24.07	-23.09	-14.05	104.94	-229.51	14.70
95	13	228.56	1444.16	3.19e-03	-48.36	0.0	32.07	21.36	-90.30	1122.68	1444.16	77.64
		-12.45	-1444.30	-7.81e-04	0.0	32.0	32.05	-27.00	-90.30	1122.68	-1444.30	-12.45
95	14	150.79	918.27	-5.23e-03	-48.36	0.0	-115.71	26.54	57.92	-965.07	918.27	-81.95
		-81.95	-934.32	1.00e-03	0.0	32.0	-115.72	-21.82	57.92	-965.07	-934.32	-6.58
95	15	229.09	1322.49	3.25e-03	-48.36	0.0	49.88	21.62	-82.76	1151.72	1322.49	74.60
		-7.35	-1324.66	-8.31e-04	0.0	32.0	49.87	-26.74	-82.76	1151.72	-1324.66	-7.35
95	16	149.31	810.42	-5.29e-03	-48.36	0.0	-133.45	26.31	51.15	-993.44	810.42	-79.38
		-79.38	-825.52	1.06e-03	0.0	32.0	-133.47	-22.05	51.15	-993.44	-825.52	-11.21
96	1	314.21	362.08	-2.91e-03	-62.88	0.0	-108.94	35.08	-22.82	1196.53	362.08	1.13
		1.13	-367.98	2.59e-04	0.0	32.0	-108.97	-27.80	-22.82	1196.53	-367.98	117.63
96	2	250.41	185.32	-2.44e-03	-48.37	0.0	-75.57	27.74	-11.74	1039.16	185.32	-3.91
		-3.91	-190.24	1.73e-04	0.0	32.0	-75.59	-20.64	-11.74	1039.16	-190.24	109.68
96	3	293.73	364.80	-2.04e-03	-62.88	0.0	-92.81	33.53	-22.95	872.14	364.80	8.66
		8.66	-369.36	2.20e-04	0.0	32.0	-92.84	-29.36	-22.95	872.14	-369.36	75.36

96	4	229.93	186.32	-1.57e-03	-48.37	0.0	-61.03	26.18	-11.76	714.83	186.32	3.58
		3.58	-189.91	1.33e-04	0.0	32.0	-61.05	-22.19	-11.76	714.83	-189.91	67.46
96	9	200.10	564.76	-2.07e-03	-48.37	0.0	19.34	23.63	-35.42	70.54	564.76	15.59
		-2.29	-568.31	3.87e-04	0.0	32.0	19.31	-24.75	-35.42	70.54	-568.31	-2.29
96	10	224.05	47.26	4.53e-04	-48.37	0.0	-106.13	25.52	3.01	746.70	-48.89	9.28
		9.28	-48.89	-1.35e-04	0.0	32.0	-106.16	-22.85	3.01	746.70	47.26	51.92
96	14	173.86	5.02	-5.81e-03	-48.37	0.0	-38.24	25.07	0.55	-683.63	-12.60	-33.74
		-33.74	-12.60	7.91e-04	0.0	32.0	-38.26	-23.30	0.55	-683.63	5.02	-5.44
96	15	251.21	396.64	4.29e-03	-48.37	0.0	-25.37	24.34	-24.69	1526.18	396.64	55.26
		55.26	-393.12	-5.88e-04	0.0	32.0	-25.39	-24.03	-24.69	1526.18	-393.12	60.26
97	1	295.76	529.90	-1.64e-03	-62.94	0.0	-152.53	39.25	-33.24	2075.10	529.90	-96.06
		-96.06	-534.48	2.90e-04	0.0	32.0	-152.61	-23.69	-33.24	2075.10	-534.48	153.01
97	4	215.33	290.47	-8.26e-04	-48.41	0.0	-86.71	28.55	-18.24	1196.53	290.47	-53.65
		-53.65	-293.49	1.48e-04	0.0	32.0	-86.77	-19.86	-18.24	1196.53	-293.49	85.44
97	5	243.19	240.07	5.35e-03	-48.41	0.0	-143.84	27.44	14.98	1716.08	-239.49	-5.82
		-5.82	-239.49	-2.00e-04	0.0	32.0	-143.91	-20.97	14.98	1716.08	240.07	97.78
97	8	166.31	1172.27	-6.19e-03	-48.41	0.0	-88.59	23.97	-73.35	-416.19	1172.27	-23.61
		-31.31	-1176.27	5.69e-04	0.0	32.0	-88.65	-24.45	-73.35	-416.19	-1176.27	-31.31
97	9	191.26	641.51	-1.88e-03	-48.41	0.0	-30.93	25.22	-40.16	352.21	641.51	-18.71
		-18.71	-644.26	4.02e-04	0.0	32.0	-30.99	-23.19	-40.16	352.21	-644.26	13.69
97	14	164.50	817.15	-6.21e-03	-48.41	0.0	-50.24	24.70	-51.15	-469.10	817.15	-37.13
		-37.13	-820.64	6.24e-04	0.0	32.0	-50.31	-23.72	-51.15	-469.10	-820.64	-21.41
97	15	245.16	172.15	5.55e-03	-48.41	0.0	-96.38	27.15	10.74	1789.06	-171.68	1.36
		1.36	-171.68	-3.90e-04	0.0	32.0	-96.45	-21.26	10.74	1789.06	172.15	95.69
98	1	359.28	1222.28	-2.74e-05	-62.91	0.0	-178.01	35.76	-76.85	2446.56	1222.28	34.05
		34.05	-1237.52	3.82e-04	0.0	32.0	-178.06	-27.15	-76.85	2446.56	-1237.52	171.75
98	2	283.85	840.04	4.97e-05	-48.39	0.0	-127.36	28.32	-52.81	2113.93	840.04	19.06
		19.06	-850.19	2.33e-04	0.0	32.0	-127.41	-20.08	-52.81	2113.93	-850.19	150.95
98	4	253.35	695.43	9.96e-05	-48.39	0.0	-103.26	26.53	-43.74	1385.08	695.43	20.78
		20.78	-704.43	1.98e-04	0.0	32.0	-103.31	-21.87	-43.74	1385.08	-704.43	95.40
98	5	267.08	677.10	6.63e-03	-48.39	0.0	-201.17	27.83	42.30	1784.20	-676.67	11.11
		11.11	-676.67	3.62e-05	0.0	32.0	-201.22	-20.57	42.30	1784.20	677.10	127.33
98	6	196.75	2044.23	-6.40e-03	-48.39	0.0	47.25	21.47	-128.30	-350.00	2044.23	44.29
		-42.87	-2062.36	4.08e-04	0.0	32.0	47.20	-26.92	-128.30	-350.00	-2062.36	-42.87
98	8	197.36	2184.40	-6.49e-03	-48.39	0.0	21.04	21.19	-137.06	-349.09	2184.40	48.93
		-47.44	-2202.52	4.72e-04	0.0	32.0	20.99	-27.21	-137.06	-349.09	-2202.52	-47.44
98	15	268.41	588.13	6.88e-03	-48.39	0.0	-172.67	27.56	36.76	1844.64	-588.27	17.24
		17.24	-588.27	-1.58e-04	0.0	32.0	-172.71	-20.83	36.76	1844.64	588.13	124.93
99	1	474.08	637.86	1.89e-03	-62.93	0.0	-411.83	37.46	-39.20	1778.42	637.86	117.93
		117.93	-616.98	4.51e-04	0.0	32.0	-411.90	-25.46	-39.20	1778.42	-616.98	310.04
99	4	316.66	390.52	1.18e-03	-48.41	0.0	-238.62	27.39	-24.06	981.23	390.52	68.64
		68.64	-379.83	2.41e-04	0.0	32.0	-238.67	-21.02	-24.06	981.23	-379.83	170.57
99	5	336.72	1230.42	7.96e-03	-48.41	0.0	-328.94	29.61	75.97	1399.23	-1201.59	46.89
		46.89	-1201.59	2.70e-04	0.0	32.0	-328.99	-18.79	75.97	1399.23	1230.42	220.06
99	8	217.84	1623.59	-6.75e-03	-48.41	0.0	-217.46	22.96	-101.88	-518.88	1623.59	44.06
		4.21	-1637.82	3.06e-04	0.0	32.0	-217.52	-25.45	-101.88	-518.88	-1637.82	4.21
99	9	428.04	545.04	-1.26e-03	-48.41	0.0	-204.27	31.80	-34.09	110.99	545.04	94.46
		94.46	-546.17	4.52e-04	0.0	32.0	-204.32	-16.61	-34.09	110.99	-546.17	337.53
99	10	138.18	160.21	2.53e-03	-48.41	0.0	-280.08	20.80	9.54	763.54	-145.13	-4.87
		-113.74	-145.13	4.85e-05	0.0	32.0	-280.14	-27.60	9.54	763.54	160.21	-113.74
99	14	216.61	1331.27	-6.87e-03	-48.41	0.0	-178.32	23.67	-83.56	-582.92	1331.27	31.47
		14.34	-1343.90	3.77e-04	0.0	32.0	-178.38	-24.74	-83.56	-582.92	-1343.90	14.34
100	1	205.47	3.167e+04	-1.82e-04	-72.80	0.0	-71.58	3267.72	-2103.28	-6.129e+05	3.167e+04	-5.150e+04
		-5.150e+04	-1977.57	4.63e-04	0.0	16.0	-71.58	3194.92	-2103.28	-6.129e+05	-1977.57	205.47
100	4	112.39	1.870e+04	-1.05e-04	-56.00	0.0	-38.21	1931.48	-1235.24	-3.594e+05	1.870e+04	-3.034e+04
		-3.034e+04	-1060.90	2.72e-04	0.0	16.0	-38.21	1875.48	-1235.24	-3.594e+05	-1060.90	112.39
100	5	-116.12	47.50	1.27e-03	-56.00	0.0	-286.46	1142.53	-525.73	-2.081e+05	47.50	-1.795e+04
		-1.795e+04	-8364.11	-1.43e-04	0.0	16.0	-286.46	1086.53	-525.73	-2.081e+05	-8364.11	-116.12
100	6	157.01	2.146e+04	-1.32e-03	-56.00	0.0	233.88	1148.95	-915.78	-2.081e+05	2.146e+04	-1.778e+04
		-1.778e+04	6810.91	4.88e-04	0.0	16.0	233.88	1092.95	-915.78	-2.081e+05	6810.91	157.01
100	7	-107.10	-26.40	1.27e-03	-56.00	0.0	-286.31	1141.97	-525.05	-2.082e+05	-26.40	-1.793e+04
		-1.793e+04	-8427.12	-1.48e-04	0.0	16.0	-286.31	1085.97	-525.05	-2.082e+05	-8427.12	-107.10
100	8	147.84	2.154e+04	-1.32e-03	-56.00	0.0	233.67	1149.49	-916.94	-2.080e+05	2.154e+04	-1.780e+04
		-1.780e+04	6872.80	4.92e-04	0.0	16.0	233.67	1093.49	-916.94	-2.080e+05	6872.80	147.84
100	11	65.39	1.686e+04	-1.56e-04	-56.00	0.0	15.07	1227.76	-1036.22	-2.630e+05	1.686e+04	-1.913e+04
		-1.913e+04	285.32	-7.30e-05	0.0	16.0	15.07	1171.76	-1036.22	-2.630e+05	285.32	65.39
101	1	1.139e+04	623.41	1.15e-03	-64.71	0.0	-13.25	320.16	65.83	222.98	-1545.09	1907.79
		1907.79	-1545.09	-1.18e-03	0.0	32.9	-15.27	255.45	65.83	222.98	623.41	1.139e+04
101	2	9876.76	383.54	1.18e-03	-49.78	0.0	16.84	273.88	47.12	213.61	-1168.65	1675.27
		1675.27	-1168.65	-1.11e-03	0.0	32.9	15.29	224.10	47.12	213.61	383.54	9876.76
101	3	8166.67	594.35	6.75e-04	-64.71	0.0	-46.26	239.31	56.46	110.81	-1265.44	1349.71
		1349.71	-1265.44	-7.77e-04	0.0	32.9	-48.27	174.60	56.46	110.81	594.35	8166.67
101	4	6655.96	354.94	7.05e-04	-49.78	0.0	-16.12	193.04	37.78	101.41	-889.49	1117.23
		1117.23	-889.49	-7.03e-04	0.0	32.9	-17.67	143.26	37.78	101.41	354.94	6655.96
101	6	3928.03	2324.91	-7.98e-03	-49.78	0.0	228.44	119.16	-151.45	-440.52	2324.91	822.91
		822.91	-2663.82	-4.79e-04	0.0	32.9	226.89	69.38	-151.45	-440.52	-2663.82	3928.03
101	7	3354.39	3674.66	8.47e-03	-49.78	0.0	-239.52	116.02	232.28	414.54	-3976.33	352.71
		352.71	-3976.33	-1.76e-04	0.0	32.9	-241.07	66.24	232.28	414.54	3674.66	3354.39

101	10	5898.82	1464.36	2.77e-03	-49.78	0.0	-157.25	173.27	98.73	147.67	-1787.83	1011.33
		1011.33	-1787.83	-3.47e-04	0.0	32.9	-158.80	123.49	98.73	147.67	1464.36	5898.82
101	13	3364.19	3306.50	8.64e-03	-49.78	0.0	-265.07	115.83	209.70	445.44	-3600.83	368.56
		368.56	-3600.83	-2.45e-04	0.0	32.9	-266.62	66.06	209.70	445.44	3306.50	3364.19
101	17	1390.35	349.16	-2.47e-03	-49.78	0.0	66.95	62.35	-31.17	-167.45	349.16	156.29
		156.29	-677.67	-2.05e-04	0.0	32.9	65.40	12.58	-31.17	-167.45	-677.67	1390.35
105	1	1.536e+04	-403.58	0.52	-1358.67	0.0	-3893.21	-5145.47	-28.79	-1134.12	-403.58	1.536e+04
		-8.009e+05	-4432.38	-5.38e-03	0.0	140.0	-3944.97	-6504.15	-28.79	-1134.12	-4432.38	-8.009e+05
105	2	1.581e+04	-280.51	0.34	-763.16	0.0	-2553.69	-3468.43	-17.53	-737.06	-280.51	1.581e+04
		-5.239e+05	-2734.01	-3.94e-03	0.0	140.0	-2582.76	-4231.59	-17.53	-737.06	-2734.01	-5.239e+05
105	4	8995.76	-223.97	0.29	-747.40	0.0	-2144.88	-2831.63	-16.69	-633.27	-223.97	8995.76
		-4.402e+05	-2559.38	-3.20e-03	0.0	140.0	-2173.35	-3579.03	-16.69	-633.27	-2559.38	-4.402e+05
105	7	1.611e+04	-171.51	0.28	-895.13	0.0	-1695.47	-2611.11	1.07	-719.15	-321.86	1.611e+04
		-4.122e+05	-321.86	6.16e-04	0.0	140.0	-1729.57	-3506.24	1.07	-719.15	-171.51	-4.122e+05
105	8	1.316e+04	-173.72	0.27	-895.13	0.0	-2462.09	-2665.74	-37.05	-548.98	-173.72	1.316e+04
		-4.491e+05	-5359.50	-5.99e-03	0.0	140.0	-2496.19	-3560.87	-37.05	-548.98	-5359.50	-4.491e+05
105	9	5.111e+04	-136.62	0.30	-895.13	0.0	-2335.32	-2549.73	-26.74	-541.10	-136.62	5.111e+04
		-3.686e+05	-3878.87	-2.80e-03	0.0	140.0	-2369.42	-3444.86	-26.74	-541.10	-3878.87	-3.686e+05
105	17	5.139e+04	-142.12	0.30	-895.13	0.0	-2390.12	-2548.53	-26.47	-537.54	-142.12	5.139e+04
		-3.682e+05	-3847.19	-2.61e-03	0.0	140.0	-2424.22	-3443.66	-26.47	-537.54	-3847.19	-3.682e+05
105	18	-4.819e+04	-278.38	0.25	-895.13	0.0	-1792.45	-2727.80	-10.66	-729.40	-278.38	-4.819e+04
		-4.928e+05	-1770.56	-2.91e-03	0.0	140.0	-1826.55	-3622.93	-10.66	-729.40	-1770.56	-4.928e+05
106	1	-5.283e+05	-205.05	-0.05	-26.86	0.0	-1951.30	3272.81	67.98	-280.43	-1968.31	-6.129e+05
		-6.129e+05	-1968.31	6.71e-05	0.0	25.9	-1952.32	3245.95	67.98	-280.43	-205.05	-5.283e+05
106	4	-3.098e+05	-117.22	-0.03	-18.54	0.0	-1145.80	1921.22	36.19	-152.59	-1055.85	-3.594e+05
		-3.594e+05	-1055.85	6.04e-05	0.0	25.9	-1146.51	1902.68	36.19	-152.59	-117.22	-3.098e+05
106	7	-1.797e+05	-1428.71	-0.02	-15.69	0.0	-491.44	1105.20	269.74	-214.27	-8425.08	-2.082e+05
		-2.082e+05	-8425.08	-1.82e-03	0.0	25.9	-492.04	1089.52	269.74	-214.27	-1428.71	-1.797e+05
106	8	-1.790e+05	6873.43	-0.02	-15.69	0.0	-847.05	1127.67	-219.72	114.49	6873.43	-1.790e+05
		-2.080e+05	1174.63	1.88e-03	0.0	25.9	-847.64	1111.98	-219.72	114.49	1174.63	-1.790e+05
106	11	-2.319e+05	287.60	-0.01	-15.69	0.0	-964.00	1210.05	-15.65	-54.32	287.60	-2.630e+05
		-2.630e+05	-118.41	-1.97e-04	0.0	25.9	-964.59	1194.37	-15.65	-54.32	-118.41	-2.319e+05
106	12	-1.274e+05	-132.22	-0.02	-15.69	0.0	-373.56	1021.49	64.72	-59.97	-1810.89	-1.529e+05
		-1.529e+05	-1810.89	2.67e-04	0.0	25.9	-374.16	1005.81	64.72	-59.97	-132.22	-1.274e+05
106	19	-2.311e+05	143.95	-0.01	-15.69	0.0	-975.19	1207.94	-11.32	-53.74	143.95	-2.622e+05
		-2.622e+05	-149.79	-1.80e-04	0.0	25.9	-975.79	1192.25	-11.32	-53.74	-149.79	-2.311e+05
106	20	-1.274e+05	-101.29	-0.02	-15.69	0.0	-362.53	1023.47	60.42	-62.32	-1668.47	-1.537e+05
		-1.537e+05	-1668.47	2.49e-04	0.0	25.9	-363.13	1007.79	60.42	-62.32	-101.29	-1.274e+05
107	1	-5.346e+05	83.34	-0.05	-25.87	0.0	-2291.67	3321.75	-0.41	-209.65	83.34	-6.173e+05
		-6.173e+05	73.21	1.43e-04	0.0	25.0	-2292.66	3295.88	-0.41	-209.65	73.21	-5.346e+05
107	2	-4.572e+05	263.87	-0.04	-20.86	0.0	-1953.97	2840.62	-5.86	-186.16	263.87	-5.279e+05
		-5.279e+05	117.42	1.41e-04	0.0	25.0	-1954.76	2819.77	-5.86	-186.16	117.42	-4.572e+05
107	3	-3.907e+05	-6.83	-0.04	-22.87	0.0	-1681.76	2429.03	-0.06	-134.45	-6.83	-4.511e+05
		-4.511e+05	-8.22	1.13e-04	0.0	25.0	-1682.63	2406.16	-0.06	-134.45	-8.22	-3.907e+05
107	4	-3.133e+05	174.92	-0.03	-17.86	0.0	-1344.06	1947.91	-5.55	-110.98	174.92	-3.618e+05
		-3.618e+05	36.32	1.11e-04	0.0	25.0	-1344.74	1930.04	-5.55	-110.98	36.32	-3.133e+05
107	7	-1.834e+05	-1430.45	-0.02	-15.11	0.0	-967.44	1141.69	251.68	-196.56	-7717.99	-2.118e+05
		-2.118e+05	-7717.99	-1.73e-03	0.0	25.0	-968.01	1126.58	251.68	-196.56	-1430.45	-1.834e+05
107	8	-1.783e+05	7729.57	-0.02	-15.11	0.0	-599.94	1109.19	-257.09	144.40	7729.57	-2.059e+05
		-2.059e+05	1306.89	1.89e-03	0.0	25.0	-600.52	1094.09	-257.09	144.40	1306.89	-1.783e+05
107	11	-2.335e+05	1144.90	-0.01	-15.11	0.0	-936.70	1220.22	-43.59	-28.22	1144.90	-2.638e+05
		-2.638e+05	56.02	-1.71e-04	0.0	25.0	-937.28	1205.11	-43.59	-28.22	56.02	-2.335e+05
107	12	-1.283e+05	-169.15	-0.02	-15.11	0.0	-633.26	1031.87	38.34	-38.39	-1126.98	-1.538e+05
		-1.538e+05	-1126.98	3.26e-04	0.0	25.0	-633.84	1016.77	38.34	-38.39	-169.15	-1.283e+05
107	15	-1.838e+05	-1434.44	-0.02	-15.11	0.0	-976.18	1141.84	243.43	-191.20	-7515.73	-2.122e+05
		-2.122e+05	-7515.73	-1.73e-03	0.0	25.0	-976.76	1126.73	243.43	-191.20	-1434.44	-1.838e+05
107	16	-1.779e+05	7535.40	-0.02	-15.11	0.0	-591.17	1108.92	-249.12	140.20	7535.40	-2.055e+05
		-2.055e+05	1311.93	1.89e-03	0.0	25.0	-591.75	1093.81	-249.12	140.20	1311.93	-1.779e+05
108	1	2.350e+05	476.59	0.20	-144.96	0.0	-1063.80	-1381.61	3.20	-521.10	476.59	2.350e+05
		3.143e+04	28.79	2.84e-03	0.0	140.0	-1069.33	-1526.57	3.20	-521.10	28.79	3.143e+04
108	4	1.383e+05	288.81	0.12	-100.10	0.0	-626.08	-810.36	2.01	-265.39	288.81	1.383e+05
		1.788e+04	7.16	1.59e-03	0.0	140.0	-629.90	-910.46	2.01	-265.39	7.16	1.788e+04
108	6	8.231e+04	770.07	0.07	-84.67	0.0	-493.14	-469.65	12.06	-2.56	770.07	8.231e+04
		1.063e+04	-917.97	-1.28e-03	0.0	140.0	-496.38	-554.32	12.06	-2.56	-917.97	1.063e+04
108	7	8.200e+04	917.81	0.07	-84.67	0.0	-254.32	-462.39	-8.63	-115.03	917.81	8.200e+04
		1.133e+04	-290.33	3.84e-03	0.0	140.0	-257.56	-547.05	-8.63	-115.03	-290.33	1.133e+04
108	8	8.220e+04	838.75	0.07	-84.67	0.0	-483.09	-469.99	12.95	1.07	838.75	8.220e+04
		1.048e+04	-973.87	-1.21e-03	0.0	140.0	-486.32	-554.65	12.95	1.07	-973.87	1.048e+04
108	9	1.124e+05	114.77	0.08	-84.67	0.0	-387.24	-374.05	-0.25	-63.04	114.77	1.124e+05
		5.413e+04	79.18	1.55e-03	0.0	140.0	-390.47	-458.72	-0.25	-63.04	79.18	5.413e+04
108	12	5.187e+04	589.11	0.07	-84.67	0.0	-301.19	-560.63	6.16	-32.04	589.11	5.187e+04
		-3.255e+04	-272.92	2.14e-03	0.0	140.0	-304.42	-645.30	6.16	-32.04	-272.92	-3.255e+04
108	13	8.194e+04	746.94	0.07	-84.67	0.0	-242.82	-461.89	-6.02	-120.56	746.94	8.194e+04
		1.135e+04	-96.08	3.18e-03	0.0	140.0	-246.05	-546.56	-6.02	-120.56	-96.08	1.135e+04
109	1	2.441e+05	494.12	0.21	-144.96	0.0	-1318.94	-1433.41	3.45	-525.08	494.12	2.441e+05
		3.325e+04	11.37	2.82e-03	0.0	140.0	-1324.47	-1578.37	3.45	-525.08	11.37	3.325e+04
109	4	1.431e+05	299.31	0.12	-100.10	0.0	-776.21	-835.24	2.16	-267.57	299.31	1.431e+05
		1.911e+04	-3.27	1.58e-03	0.0	140.0	-780.03	-935.34	2.16	-267.57	-3.27	1.911e+04

109	7	8.392e+04	890.72	0.07	-84.67	0.0	-554.69	-471.12	-8.24	-115.99	890.72	8.392e+04
		1.204e+04	-263.21	3.81e-03	0.0	140.0	-557.92	-555.78	-8.24	-115.99	-263.21	1.204e+04
109	8	8.318e+04	836.68	0.07	-84.67	0.0	-412.82	-463.98	12.92	0.04	-971.72	8.318e+04
		1.230e+04	-971.72	-1.21e-03	0.0	140.0	-416.05	-548.64	12.92	0.04	836.68	1.230e+04
109	9	1.136e+05	106.78	0.08	-84.67	0.0	-458.00	-372.52	-0.14	-63.99	106.78	1.136e+05
		5.555e+04	87.25	1.54e-03	0.0	140.0	-461.23	-457.19	-0.14	-63.99	87.25	5.555e+04
109	10	5.340e+04	498.45	0.07	-84.67	0.0	-477.97	-562.79	5.02	-52.54	-204.60	5.340e+04
		-3.132e+04	-204.60	1.03e-03	0.0	140.0	-481.20	-647.46	5.02	-52.54	498.45	-3.132e+04
109	15	8.403e+04	758.22	0.07	-84.67	0.0	-557.20	-471.44	-6.30	-125.22	758.22	8.403e+04
		1.211e+04	-123.23	3.03e-03	0.0	140.0	-560.43	-556.11	-6.30	-125.22	-123.23	1.211e+04
109	16	8.306e+04	700.22	0.07	-84.67	0.0	-406.12	-463.65	11.01	9.27	-841.42	8.306e+04
		1.222e+04	-841.42	-4.45e-04	0.0	140.0	-409.35	-548.32	11.01	9.27	700.22	1.222e+04
110	1	2.665e+05	1178.75	0.22	-167.13	0.0	-1499.25	-1495.21	14.15	-268.10	-803.23	2.665e+05
		4.490e+04	-803.23	4.15e-04	0.0	140.1	-1505.62	-1662.33	14.15	-268.10	1178.75	4.490e+04
110	4	1.552e+05	677.48	0.13	-111.97	0.0	-874.77	-869.31	8.14	-150.39	-462.47	1.552e+05
		2.536e+04	-462.47	1.66e-04	0.0	140.1	-879.04	-981.28	8.14	-150.39	677.48	2.536e+04
110	5	9.507e+04	698.31	0.08	-89.52	0.0	-127.78	-456.17	-5.69	-199.63	698.31	9.507e+04
		2.479e+04	-98.60	2.76e-03	0.0	140.1	-131.19	-545.69	-5.69	-199.63	-98.60	2.479e+04
110	8	8.746e+04	1289.30	0.08	-89.52	0.0	-948.45	-507.91	19.83	56.90	-1487.48	8.746e+04
		9942.92	-1487.48	-1.85e-03	0.0	140.1	-951.87	-597.43	19.83	56.90	1289.30	9942.92
110	9	1.219e+05	837.47	0.08	-89.52	0.0	-677.75	-368.22	11.03	-25.49	-707.21	1.219e+05
		6.399e+04	-707.21	4.85e-04	0.0	140.1	-681.16	-457.74	11.03	-25.49	837.47	6.399e+04
110	18	6.042e+04	376.81	0.07	-89.52	0.0	-340.41	-596.76	3.47	-118.84	-109.68	6.042e+04
		-2.954e+04	-109.68	-1.40e-04	0.0	140.1	-343.82	-686.28	3.47	-118.84	376.81	-2.954e+04
111	1	2.694e+05	1192.24	0.23	-168.09	0.0	-1663.10	-1553.31	14.34	-268.58	-816.00	2.694e+05
		4.067e+04	-816.00	4.00e-04	0.0	140.0	-1669.53	-1721.40	14.34	-268.58	1192.24	4.067e+04
111	4	1.568e+05	685.25	0.13	-112.47	0.0	-971.89	-902.04	8.25	-150.67	-469.84	1.568e+05
		2.293e+04	-469.84	1.57e-04	0.0	140.0	-976.19	-1014.51	8.25	-150.67	685.25	2.293e+04
111	5	9.682e+04	697.49	0.08	-89.71	0.0	-427.24	-488.90	-5.68	-199.95	697.49	9.682e+04
		2.221e+04	-97.10	2.76e-03	0.0	140.0	-430.67	-578.62	-5.68	-199.95	-97.10	2.221e+04
111	6	8.698e+04	1200.82	0.08	-89.71	0.0	-773.61	-507.86	18.56	57.36	-1398.04	8.698e+04
		9718.55	-1398.04	-1.95e-03	0.0	140.0	-777.04	-597.57	18.56	57.36	1200.82	9718.55
111	8	8.712e+04	1311.24	0.08	-89.71	0.0	-773.00	-507.39	20.15	56.87	-1509.53	8.712e+04
		9926.31	-1509.53	-1.87e-03	0.0	140.0	-776.42	-597.10	20.15	56.87	1311.24	9926.31
111	9	1.224e+05	849.78	0.08	-89.71	0.0	-698.46	-380.90	11.21	-25.83	-719.28	1.224e+05
		6.289e+04	-719.28	4.71e-04	0.0	140.0	-701.88	-470.62	11.21	-25.83	849.78	6.289e+04
111	18	6.140e+04	382.67	0.08	-89.71	0.0	-462.29	-616.40	3.56	-118.86	-115.21	6.140e+04
		-3.105e+04	-115.21	-1.45e-04	0.0	140.0	-465.72	-706.11	3.56	-118.86	382.67	-3.105e+04
112	1	2.389e+05	309.48	0.40	-144.96	0.0	-1746.74	-1936.49	-3.45	272.46	309.48	2.389e+05
		-4.238e+04	-173.31	3.07e-03	0.0	140.0	-1752.27	-2081.45	-3.45	272.46	-173.31	-4.238e+04
112	3	1.748e+05	327.92	0.29	-128.19	0.0	-1275.66	-1404.93	-3.88	177.66	327.92	1.748e+05
		-3.090e+04	-215.25	2.59e-03	0.0	140.0	-1280.55	-1533.11	-3.88	177.66	-215.25	-3.090e+04
112	4	1.400e+05	174.70	0.24	-100.10	0.0	-1024.27	-1128.12	-1.94	147.72	174.70	1.400e+05
		-2.498e+04	-96.82	1.74e-03	0.0	140.0	-1028.09	-1228.22	-1.94	147.72	-96.82	-2.498e+04
112	5	8.196e+04	1212.57	0.14	-84.67	0.0	-705.55	-639.73	-13.73	30.84	1212.57	8.196e+04
		-1.353e+04	-709.47	4.43e-03	0.0	140.0	-708.78	-724.40	-13.73	30.84	-709.47	-1.353e+04
112	6	8.032e+04	391.84	0.14	-84.67	0.0	-468.65	-639.16	8.44	71.82	-789.64	8.032e+04
		-1.509e+04	-789.64	-1.57e-03	0.0	140.0	-471.88	-723.83	8.44	71.82	391.84	-1.509e+04
112	11	1.108e+05	609.11	0.14	-84.67	0.0	-561.06	-566.03	-8.52	49.54	609.11	1.108e+05
		2.560e+04	-583.89	6.97e-04	0.0	140.0	-564.29	-650.70	-8.52	49.54	-583.89	2.560e+04
112	12	5.144e+04	261.72	0.13	-84.67	0.0	-617.49	-712.79	3.09	57.40	-171.50	5.144e+04
		-5.427e+04	-171.50	2.16e-03	0.0	140.0	-620.72	-797.46	3.09	57.40	261.72	-5.427e+04
112	13	8.225e+04	1115.56	0.14	-84.67	0.0	-708.77	-639.65	-12.26	21.33	1115.56	8.225e+04
		-1.323e+04	-601.37	3.68e-03	0.0	140.0	-712.00	-724.32	-12.26	21.33	-601.37	-1.323e+04
112	14	8.003e+04	283.66	0.14	-84.67	0.0	-466.59	-639.27	6.95	81.31	-688.92	8.003e+04
		-1.539e+04	-688.92	-8.22e-04	0.0	140.0	-469.82	-723.93	6.95	81.31	283.66	-1.539e+04
114	1	3.882e+04	515.07	0.23	-146.00	0.0	-1323.94	-2301.91	-1.84	-1037.58	515.07	3.882e+04
		-2.961e+05	255.24	4.87e-03	0.0	141.0	-1329.51	-2447.91	-1.84	-1037.58	255.24	-2.961e+05
114	3	2.842e+04	534.64	0.17	-129.11	0.0	-971.63	-1660.63	-3.10	-647.84	534.64	2.842e+04
		-2.148e+05	97.07	4.25e-03	0.0	141.0	-976.56	-1789.74	-3.10	-647.84	97.07	-2.148e+05
114	4	2.200e+04	293.66	0.14	-100.82	0.0	-781.05	-1337.91	-0.90	-544.99	293.66	2.200e+04
		-1.738e+05	166.73	2.79e-03	0.0	141.0	-784.90	-1438.73	-0.90	-544.99	166.73	-1.738e+05
114	5	1.313e+04	1508.10	0.08	-85.27	0.0	-495.60	-749.91	-16.04	-228.68	1508.10	1.313e+04
		-9.863e+04	-753.32	6.39e-03	0.0	141.0	-498.86	-835.18	-16.04	-228.68	-753.32	-9.863e+04
114	6	1.279e+04	781.67	0.08	-85.27	0.0	-456.49	-742.22	11.25	-130.25	-805.31	1.279e+04
		-9.788e+04	-805.31	-1.45e-03	0.0	141.0	-459.75	-827.50	11.25	-130.25	781.67	-9.788e+04
114	9	5.611e+04	575.53	0.10	-85.27	0.0	-354.30	-653.50	-6.65	-189.97	575.53	5.611e+04
		-4.205e+04	-362.34	2.59e-03	0.0	141.0	-357.56	-738.77	-6.65	-189.97	-362.34	-4.205e+04
114	10	-3.031e+04	380.59	0.06	-85.27	0.0	-562.46	-838.98	1.73	-169.64	136.61	-3.031e+04
		-1.546e+05	136.61	2.32e-03	0.0	141.0	-565.72	-924.25	1.73	-169.64	380.59	-1.546e+05
114	11	5.622e+04	651.97	0.10	-85.27	0.0	-367.74	-654.50	-7.95	-214.60	651.97	5.622e+04
		-4.208e+04	-469.60	1.49e-03	0.0	141.0	-370.99	-739.77	-7.95	-214.60	-469.60	-4.208e+04
114	12	-3.047e+04	547.91	0.06	-85.27	0.0	-552.47	-838.08	3.96	-145.25	-10.36	-3.047e+04
		-1.547e+05	-10.36	3.40e-03	0.0	141.0	-555.72	-923.35	3.96	-145.25	547.91	-1.547e+05
115	1	4.315e+04	536.67	0.25	-170.75	0.0	-1378.25	-2404.29	-10.41	-222.38	536.67	4.315e+04
		-3.113e+05	-942.60	2.36e-03	0.0	142.2	-1384.77	-2575.04	-10.41	-222.38	-942.60	-3.113e+05
115	3	3.354e+04	582.04	0.19	-145.61	0.0	-1002.50	-1729.33	-10.03	-141.79	582.04	3.354e+04
		-2.230e+05	-844.38	2.35e-03	0.0	142.2	-1008.07	-1874.93	-10.03	-141.79	-844.38	-2.230e+05

115	4	2.439e+04	284.53	0.15	-114.25	0.0	-804.32	-1393.92	-5.58	-123.05	284.53	2.439e+04
		-1.822e+05	-508.19	1.26e-03	0.0	142.2	-808.69	-1508.16	-5.58	-123.05	-508.19	-1.822e+05
115	5	2.340e+04	1100.27	0.09	-91.11	0.0	-48.93	-745.47	-11.42	-146.92	1100.27	2.340e+04
		-8.917e+04	-523.25	4.79e-03	0.0	142.2	-52.41	-836.59	-11.42	-146.92	-523.25	-8.917e+04
115	6	1.028e+04	-333.29	0.08	-91.11	0.0	-909.09	-796.38	-0.74	57.86	-333.29	1.028e+04
		-1.095e+05	-438.92	-1.68e-03	0.0	142.2	-912.57	-887.50	-0.74	57.86	-438.92	-1.095e+05
115	7	2.322e+04	1104.59	0.09	-91.11	0.0	-60.27	-746.01	-11.45	-145.31	1104.59	2.322e+04
		-8.942e+04	-523.64	4.58e-03	0.0	142.2	-63.75	-837.12	-11.45	-145.31	-523.64	-8.942e+04
115	12	-2.653e+04	547.04	0.07	-91.11	0.0	-470.41	-869.17	-8.52	-121.92	547.04	-2.653e+04
		-1.567e+05	-664.02	2.40e-03	0.0	142.2	-473.89	-960.29	-8.52	-121.92	-664.02	-1.567e+05
115	17	6.393e+04	299.14	0.10	-91.11	0.0	-605.23	-666.20	-5.35	52.85	299.14	6.393e+04
		-3.737e+04	-461.31	1.95e-03	0.0	142.2	-608.72	-757.32	-5.35	52.85	-461.31	-3.737e+04
115	18	-3.032e+04	501.30	0.07	-91.11	0.0	-326.41	-875.94	-7.15	-142.84	501.30	-3.032e+04
		-1.614e+05	-515.19	1.11e-03	0.0	142.2	-329.89	-967.05	-7.15	-142.84	-515.19	-1.614e+05
116	1	-1.293e+05	34.82	-0.36	-143.08	0.0	-1860.96	2961.68	1.73	-280.06	-204.15	-5.286e+05
		-5.286e+05	-204.15	1.03e-03	0.0	138.2	-1866.42	2818.61	1.73	-280.06	-204.15	-5.286e+05
116	3	-9.462e+04	59.55	-0.26	-126.52	0.0	-1345.96	2176.23	1.85	-185.79	-195.83	-3.866e+05
		-3.866e+05	-195.83	7.09e-04	0.0	138.2	-1350.79	2049.71	1.85	-185.79	-195.83	-3.866e+05
116	4	-7.585e+04	-2.43	-0.21	-98.80	0.0	-1088.42	1743.70	0.83	-152.38	-116.69	-3.100e+05
		-3.100e+05	-116.69	6.49e-04	0.0	138.2	-1092.19	1644.91	0.83	-152.38	-116.69	-3.100e+05
116	7	-4.583e+04	1870.95	-0.12	-83.56	0.0	-453.89	1011.52	23.88	-214.06	-1428.42	-1.798e+05
		-1.798e+05	-1428.42	-7.23e-03	0.0	138.2	-457.08	927.96	23.88	-214.06	-1428.42	-1.798e+05
116	8	-4.203e+04	1174.94	-0.12	-83.56	0.0	-774.42	1033.56	-21.25	114.46	1174.94	-1.791e+05
		-1.791e+05	-1761.54	7.90e-03	0.0	138.2	-777.61	950.00	-21.25	114.46	-1761.54	-1.791e+05
116	11	-8.367e+04	126.41	-0.11	-83.56	0.0	-852.90	1114.98	1.77	-54.36	-118.15	-2.320e+05
		-2.320e+05	-118.15	-1.48e-03	0.0	138.2	-856.09	1031.41	1.77	-54.36	-118.15	-2.320e+05
116	12	-4209.09	-36.50	-0.14	-83.56	0.0	-372.97	928.83	0.69	-59.75	-131.87	-1.268e+05
		-1.268e+05	-131.87	2.16e-03	0.0	138.2	-376.16	845.27	0.69	-59.75	-131.87	-1.268e+05
116	19	-8.319e+04	159.93	-0.11	-83.56	0.0	-863.53	1113.03	2.24	-53.78	-149.54	-2.312e+05
		-2.312e+05	-149.54	-1.37e-03	0.0	138.2	-866.72	1029.47	2.24	-53.78	-149.54	-2.312e+05
116	20	-4697.94	-69.05	-0.14	-83.56	0.0	-362.43	930.64	0.23	-62.10	-100.94	-1.275e+05
		-1.275e+05	-100.94	2.04e-03	0.0	138.2	-365.62	847.08	0.23	-62.10	-100.94	-1.275e+05
117	1	3.322e+05	392.23	0.12	-144.96	0.0	-1064.27	-613.63	2.79	-25.50	392.23	3.322e+05
		2.362e+05	1.79	1.74e-03	0.0	140.0	-1069.80	-758.59	2.79	-25.50	392.23	2.362e+05
117	3	2.440e+05	344.82	0.08	-128.18	0.0	-772.78	-437.09	2.60	12.13	-19.10	2.440e+05
		1.738e+05	-19.10	1.46e-03	0.0	140.0	-777.67	-565.28	2.60	12.13	-19.10	1.738e+05
117	4	1.953e+05	230.76	0.07	-100.10	0.0	-626.24	-353.42	1.67	-7.11	-3.31	1.953e+05
		1.388e+05	-3.31	9.64e-04	0.0	140.0	-630.06	-453.52	1.67	-7.11	-3.31	1.388e+05
117	5	1.141e+05	809.62	0.04	-84.67	0.0	-235.49	-186.75	-6.99	-18.85	809.62	1.141e+05
		8.205e+04	-169.01	2.26e-03	0.0	140.0	-238.72	-271.42	-6.99	-18.85	-169.01	8.205e+04
117	6	1.146e+05	547.57	0.04	-84.67	0.0	-496.78	-193.68	9.86	89.91	-832.41	1.146e+05
		8.156e+04	-832.41	-5.63e-04	0.0	140.0	-500.02	-278.34	9.86	89.91	-832.41	8.156e+04
117	9	1.311e+05	98.13	0.03	-84.67	0.0	-494.59	-94.36	-0.50	33.44	98.13	1.311e+05
		1.120e+05	28.55	1.17e-03	0.0	140.0	-497.82	-179.03	-0.50	33.44	28.55	1.120e+05
117	10	9.758e+04	312.25	0.04	-84.67	0.0	-230.72	-286.31	3.00	36.43	-107.99	9.758e+04
		5.157e+04	-107.99	5.61e-04	0.0	140.0	-233.96	-370.97	3.00	36.43	-107.99	5.157e+04
117	19	1.307e+05	184.41	0.03	-84.67	0.0	-535.66	-93.85	-1.65	21.00	184.41	1.307e+05
		1.117e+05	-46.56	1.67e-04	0.0	140.0	-538.89	-178.51	-1.65	21.00	-46.56	1.117e+05
117	20	9.793e+04	574.57	0.04	-84.67	0.0	-187.71	-286.91	6.72	48.33	-366.48	9.793e+04
		5.184e+04	-366.48	1.31e-03	0.0	140.0	-190.94	-371.58	6.72	48.33	-366.48	5.184e+04
118	1	3.349e+05	409.24	0.11	-144.96	0.0	-1275.72	-582.28	3.03	-29.10	-15.23	3.349e+05
		2.433e+05	-15.23	1.72e-03	0.0	140.0	-1281.26	-727.24	3.03	-29.10	-15.23	2.433e+05
118	3	2.454e+05	359.11	0.08	-128.18	0.0	-946.30	-411.02	2.80	9.76	-33.40	2.454e+05
		1.789e+05	-33.40	1.45e-03	0.0	140.0	-951.19	-539.21	2.80	9.76	-33.40	1.789e+05
118	4	1.966e+05	240.80	0.07	-100.10	0.0	-749.69	-334.50	1.82	-9.04	-13.36	1.966e+05
		1.428e+05	-13.36	9.52e-04	0.0	140.0	-753.51	-434.60	1.82	-9.04	-13.36	1.428e+05
118	5	1.146e+05	794.19	0.04	-84.67	0.0	-529.37	-178.26	-6.77	-19.67	794.19	1.146e+05
		8.375e+04	-153.57	2.24e-03	0.0	140.0	-532.60	-262.93	-6.77	-19.67	-153.57	8.375e+04
118	6	1.142e+05	538.39	0.04	-84.67	0.0	-387.70	-172.00	9.73	89.10	-823.29	1.142e+05
		8.418e+04	-823.29	-5.52e-04	0.0	140.0	-390.93	-256.66	9.73	89.10	-823.29	8.418e+04
118	9	1.310e+05	93.74	0.03	-84.67	0.0	-551.72	-77.38	-0.43	32.67	93.74	1.310e+05
		1.142e+05	32.93	1.16e-03	0.0	140.0	-554.95	-162.05	-0.43	32.67	32.93	1.142e+05
118	10	9.782e+04	320.58	0.04	-84.67	0.0	-357.33	-273.31	3.12	35.58	-116.33	9.782e+04
		5.363e+04	-116.33	5.52e-04	0.0	140.0	-360.56	-357.98	3.12	35.58	-116.33	5.363e+04
118	19	1.307e+05	178.75	0.03	-84.67	0.0	-604.92	-78.17	-1.57	20.21	178.75	1.307e+05
		1.138e+05	-40.91	1.60e-04	0.0	140.0	-608.15	-162.84	-1.57	20.21	-40.91	1.138e+05
118	20	9.807e+04	582.61	0.04	-84.67	0.0	-304.58	-272.69	6.84	47.50	-374.52	9.807e+04
		5.396e+04	-374.52	1.30e-03	0.0	140.0	-307.82	-357.36	6.84	47.50	-374.52	5.396e+04
119	1	3.659e+05	417.54	0.12	-167.19	0.0	-1553.57	-604.58	5.08	-146.11	-294.44	3.659e+05
		2.690e+05	-294.44	5.06e-04	0.0	140.1	-1559.97	-771.77	5.08	-146.11	-294.44	2.690e+05
119	4	2.134e+05	232.14	0.07	-112.01	0.0	-905.41	-347.73	2.85	-82.09	-167.39	2.134e+05
		1.566e+05	-167.39	2.32e-04	0.0	140.1	-909.70	-459.74	2.85	-82.09	-167.39	1.566e+05
119	7	1.250e+05	594.19	0.04	-89.55	0.0	-218.59	-156.16	-4.40	-167.92	594.19	1.250e+05
		9.673e+04	-22.18	9.89e-04	0.0	140.1	-222.02	-245.72	-4.40	-167.92	-22.18	9.673e+04
119	8	1.225e+05	696.92	0.04	-89.55	0.0	-912.88	-207.43	12.66	90.14	-1076.60	1.225e+05
		8.710e+04	-1076.60	-5.60e-04	0.0	140.1	-916.31	-296.98	12.66	90.14	-1076.60	8.710e+04
119	9	1.378e+05	377.66	0.03	-89.55	0.0	-753.75	-64.45	5.27	4.32	-360.67	1.378e+05
		1.224e+05	-360.67	7.55e-04	0.0	140.1	-757.18	-154.00	5.27	4.32	-360.67	1.224e+05

119	10	1.097e+05	103.39	0.05	-89.55	0.0	-368.42	-299.48	0.64	-81.86	13.90	1.097e+05
		6.140e+04	13.90	-1.63e-04	0.0	140.1	-371.85	-389.04	0.64	-81.86	103.39	6.140e+04
120	1	3.690e+05	415.83	0.13	-168.09	0.0	-1705.55	-648.00	5.06	-146.50	-292.79	3.690e+05
		2.671e+05	-292.79	5.08e-04	0.0	140.0	-1711.97	-816.09	5.06	-146.50	415.83	2.671e+05
120	4	2.152e+05	231.39	0.07	-112.47	0.0	-989.98	-372.31	2.84	-82.33	-166.68	2.152e+05
		1.555e+05	-166.68	2.34e-04	0.0	140.0	-994.28	-484.78	2.84	-82.33	231.39	1.555e+05
120	8	1.223e+05	693.87	0.04	-89.71	0.0	-798.60	-204.04	12.63	90.12	-1073.79	1.223e+05
		8.761e+04	-1073.79	-5.54e-04	0.0	140.0	-802.03	-293.76	12.63	90.12	693.87	8.761e+04
120	9	1.384e+05	376.67	0.03	-89.71	0.0	-813.92	-72.83	5.26	4.20	-359.69	1.384e+05
		1.221e+05	-359.69	7.56e-04	0.0	140.0	-817.34	-162.55	5.26	4.20	376.67	1.221e+05
120	10	1.109e+05	102.91	0.05	-89.71	0.0	-464.34	-315.78	0.63	-82.03	14.37	1.109e+05
		6.049e+04	14.37	-1.63e-04	0.0	140.0	-467.77	-405.49	0.63	-82.03	102.91	6.049e+04
120	17	1.384e+05	371.24	0.03	-89.71	0.0	-854.28	-72.33	5.18	6.58	-353.65	1.384e+05
		1.221e+05	-353.65	9.29e-04	0.0	140.0	-857.71	-162.04	5.18	6.58	371.24	1.221e+05
120	18	1.109e+05	114.00	0.05	-89.71	0.0	-424.92	-316.30	0.80	-84.43	2.49	1.109e+05
		6.050e+04	2.49	-3.45e-04	0.0	140.0	-428.35	-406.01	0.80	-84.43	114.00	6.050e+04
121	1	4.239e+05	289.33	0.31	-144.96	0.0	-1718.83	-1238.34	2.44	181.61	-52.68	4.239e+05
		2.404e+05	-52.68	2.14e-03	0.0	140.0	-1724.37	-1383.30	2.44	181.61	289.33	2.404e+05
121	2	3.624e+05	279.11	0.27	-116.88	0.0	-1464.83	-1062.69	2.74	162.39	-104.16	3.624e+05
		2.055e+05	-104.16	1.54e-03	0.0	140.0	-1469.30	-1179.57	2.74	162.39	279.11	2.055e+05
121	4	2.484e+05	172.66	0.18	-100.10	0.0	-1007.91	-718.67	1.50	98.30	-36.86	2.484e+05
		1.408e+05	-36.86	1.20e-03	0.0	140.0	-1011.73	-818.77	1.50	98.30	172.66	1.408e+05
121	5	1.443e+05	738.36	0.11	-84.67	0.0	-724.92	-402.76	-5.92	9.23	738.36	1.443e+05
		8.203e+04	-90.59	2.37e-03	0.0	140.0	-728.15	-487.43	-5.92	9.23	-90.59	8.203e+04
121	6	1.430e+05	195.77	0.11	-84.67	0.0	-447.82	-402.17	5.99	52.80	-643.35	1.430e+05
		8.073e+04	-643.35	-3.18e-04	0.0	140.0	-451.05	-486.83	5.99	52.80	195.77	8.073e+04
121	11	1.626e+05	419.31	0.10	-84.67	0.0	-580.54	-326.69	-5.61	25.83	419.31	1.626e+05
		1.110e+05	-365.74	3.68e-04	0.0	140.0	-583.78	-411.36	-5.61	25.83	-365.74	1.110e+05
121	12	1.246e+05	490.13	0.11	-84.67	0.0	-594.38	-478.13	5.89	40.53	-334.18	1.246e+05
		5.174e+04	-334.18	1.63e-03	0.0	140.0	-597.62	-562.80	5.89	40.53	490.13	5.174e+04
122	1	3.298e+05	567.24	-0.02	-144.96	0.0	-1064.41	104.46	5.29	397.62	-173.57	3.245e+05
		3.245e+05	-173.57	5.58e-04	0.0	140.0	-1069.95	-40.50	5.29	397.62	567.24	3.290e+05
122	3	2.424e+05	484.22	-0.01	-128.18	0.0	-777.52	86.55	4.71	291.70	-175.75	2.384e+05
		2.384e+05	-175.75	5.02e-04	0.0	140.0	-782.41	-41.64	4.71	291.70	484.22	2.415e+05
122	4	1.942e+05	324.00	-9.32e-03	-100.10	0.0	-625.74	66.71	3.00	220.85	-95.43	1.911e+05
		1.911e+05	-95.43	2.88e-04	0.0	140.0	-629.56	-33.39	3.00	220.85	324.00	1.934e+05
122	6	1.140e+05	83.18	-5.61e-03	-84.67	0.0	-513.64	47.51	3.91	184.20	-464.77	1.122e+05
		1.122e+05	-464.77	7.41e-04	0.0	140.0	-516.87	-37.16	3.91	184.20	83.18	1.129e+05
122	9	1.297e+05	178.65	-0.01	-84.67	0.0	-586.94	150.05	1.78	136.11	-69.94	1.146e+05
		1.146e+05	-69.94	6.92e-04	0.0	140.0	-590.18	65.38	1.78	136.11	178.65	1.297e+05
122	10	1.091e+05	345.79	9.13e-03	-84.67	0.0	-144.18	-48.23	3.35	125.21	-123.41	1.091e+05
		9.643e+04	-123.41	-7.71e-05	0.0	140.0	-147.41	-132.89	3.35	125.21	345.79	9.643e+04
122	15	1.142e+05	682.13	-5.79e-03	-84.67	0.0	-246.41	55.72	5.16	66.10	-40.61	1.116e+05
		1.116e+05	-40.61	-1.09e-03	0.0	140.0	-249.64	-28.95	5.16	66.10	682.13	1.135e+05
122	17	1.295e+05	209.99	-0.01	-84.67	0.0	-624.53	149.32	2.23	138.63	-102.25	1.145e+05
		1.145e+05	-102.25	8.41e-04	0.0	140.0	-627.76	64.65	2.23	138.63	209.99	1.295e+05
122	18	1.092e+05	336.69	9.07e-03	-84.67	0.0	-106.15	-47.52	3.23	122.74	-115.13	1.092e+05
		9.663e+04	-115.13	-2.04e-04	0.0	140.0	-109.38	-132.19	3.23	122.74	336.69	9.663e+04
123	1	3.384e+05	583.50	-0.02	-144.96	0.0	-1240.47	196.07	5.52	395.43	-189.89	3.211e+05
		3.211e+05	-189.89	5.39e-04	0.0	140.0	-1246.00	51.11	5.52	395.43	583.50	3.384e+05
123	4	1.987e+05	333.49	-0.01	-100.10	0.0	-728.36	119.00	3.13	219.70	-104.96	1.890e+05
		1.890e+05	-104.96	2.77e-04	0.0	140.0	-732.18	18.90	3.13	219.70	333.49	1.987e+05
123	6	1.160e+05	74.70	-6.58e-03	-84.67	0.0	-330.21	84.62	3.79	183.81	-456.37	1.101e+05
		1.101e+05	-456.37	7.51e-04	0.0	140.0	-333.45	-0.05	3.79	183.81	74.70	1.160e+05
123	9	1.325e+05	185.64	-0.01	-84.67	0.0	-628.91	182.33	1.88	135.73	-76.95	1.129e+05
		1.129e+05	-76.95	6.84e-04	0.0	140.0	-632.15	97.66	1.88	135.73	185.64	1.325e+05
123	10	1.077e+05	355.42	7.86e-03	-84.67	0.0	-251.42	-19.21	3.49	124.77	-133.07	1.077e+05
		9.906e+04	-133.07	-8.44e-05	0.0	140.0	-254.65	-103.87	3.49	124.77	355.42	9.906e+04
123	15	1.157e+05	707.16	-6.36e-03	-84.67	0.0	-547.49	78.59	5.52	65.68	-65.61	1.106e+05
		1.106e+05	-65.61	-1.12e-03	0.0	140.0	-550.72	-6.08	5.52	65.68	707.16	1.156e+05
123	19	1.321e+05	246.67	-0.01	-84.67	0.0	-671.29	180.86	-2.63	123.60	246.67	1.127e+05
		1.127e+05	-122.00	-8.44e-05	0.0	140.0	-674.52	96.19	-2.63	123.60	-122.00	1.321e+05
123	20	1.078e+05	547.95	7.76e-03	-84.67	0.0	-210.38	-17.90	6.42	136.35	-350.56	1.078e+05
		9.941e+04	-350.56	8.27e-04	0.0	140.0	-213.61	-102.57	6.42	136.35	547.95	9.941e+04
124	1	3.679e+05	235.04	-0.02	-167.04	0.0	-1567.68	209.68	2.74	-53.74	-149.02	3.508e+05
		3.508e+05	-149.02	4.31e-04	0.0	140.0	-1574.03	42.64	2.74	-53.74	235.04	3.679e+05
124	3	2.691e+05	233.71	-0.02	-142.67	0.0	-1175.61	162.13	2.76	-38.16	-152.58	2.568e+05
		2.568e+05	-152.58	3.83e-04	0.0	140.0	-1181.03	19.47	2.76	-38.16	233.71	2.691e+05
124	4	2.146e+05	122.94	-0.01	-111.92	0.0	-912.70	125.25	1.44	-31.72	-78.68	2.052e+05
		2.052e+05	-78.68	2.09e-04	0.0	140.0	-916.95	13.33	1.44	-31.72	122.94	2.146e+05
124	7	1.267e+05	323.10	-8.53e-03	-89.49	0.0	-292.81	109.63	-0.73	-145.89	323.10	1.178e+05
		1.178e+05	220.22	-7.05e-04	0.0	140.0	-296.21	20.14	-0.73	-145.89	220.22	1.267e+05
124	8	1.230e+05	95.19	-5.76e-03	-89.49	0.0	-860.69	57.43	4.83	111.57	-581.05	1.205e+05
		1.205e+05	-581.05	1.15e-03	0.0	140.0	-864.10	-32.07	4.83	111.57	95.19	1.221e+05
124	9	1.381e+05	281.02	-0.02	-89.49	0.0	-805.79	203.84	3.93	24.10	-268.74	1.160e+05
		1.160e+05	-268.74	8.26e-04	0.0	140.0	-809.19	114.35	3.93	24.10	281.02	1.381e+05
124	10	1.222e+05	104.74	9.69e-03	-89.49	0.0	-334.23	-36.94	-0.86	-57.97	104.74	1.222e+05
		1.107e+05	-15.05	-3.05e-04	0.0	140.0	-337.63	-126.43	-0.86	-57.97	-15.05	1.107e+05

124	13	1.267e+05	418.20	-8.50e-03	-89.49	0.0	-341.03	109.41	2.17	-151.36	113.89	1.178e+05
		1.178e+05	113.89	-1.33e-03	0.0	140.0	-344.43	19.92	2.17	-151.36	418.20	1.267e+05
125	1	3.670e+05	235.86	-0.02	-168.07	0.0	-1648.49	174.74	2.76	-52.42	-149.91	3.538e+05
		3.538e+05	-149.91	4.29e-04	0.0	140.0	-1654.91	6.67	2.76	-52.42	235.86	3.670e+05
125	3	2.684e+05	234.30	-0.01	-143.34	0.0	-1246.86	137.20	2.77	-37.20	-153.22	2.589e+05
		2.589e+05	-153.22	3.81e-04	0.0	140.0	-1252.33	-6.14	2.77	-37.20	234.30	2.684e+05
125	4	2.141e+05	123.54	-0.01	-112.47	0.0	-957.03	105.16	1.45	-30.96	-79.33	2.069e+05
		2.069e+05	-79.33	2.07e-04	0.0	140.0	-961.33	-7.31	1.45	-30.96	123.54	2.140e+05
125	8	1.234e+05	103.15	-5.95e-03	-89.71	0.0	-663.40	62.01	4.95	111.99	-589.46	1.203e+05
		1.203e+05	-589.46	1.14e-03	0.0	140.0	-666.83	-27.70	4.95	111.99	103.15	1.228e+05
125	9	1.381e+05	283.88	-0.02	-89.71	0.0	-824.98	197.63	3.97	24.56	-271.76	1.166e+05
		1.166e+05	-271.76	8.21e-04	0.0	140.0	-828.40	107.91	3.97	24.56	283.88	1.381e+05
125	10	1.235e+05	104.68	0.01	-89.71	0.0	-393.98	-52.52	-0.85	-57.59	104.68	1.235e+05
		1.100e+05	-14.88	-3.04e-04	0.0	140.0	-397.41	-142.23	-0.85	-57.59	-14.88	1.100e+05
125	13	1.253e+05	418.18	-7.74e-03	-89.71	0.0	-597.23	82.36	2.17	-150.94	114.34	1.199e+05
		1.199e+05	114.34	-1.33e-03	0.0	140.0	-600.66	-7.35	2.17	-150.94	418.18	1.252e+05
125	17	1.381e+05	272.14	-0.02	-89.71	0.0	-862.15	198.05	3.78	26.91	-257.47	1.165e+05
		1.165e+05	-257.47	9.99e-04	0.0	140.0	-865.57	108.34	3.78	26.91	272.14	1.381e+05
125	18	1.236e+05	93.19	0.01	-89.71	0.0	-357.80	-52.96	-0.71	-59.95	93.19	1.236e+05
		1.100e+05	-6.25	-4.80e-04	0.0	140.0	-361.23	-142.67	-0.71	-59.95	-6.25	1.100e+05
126	1	5.105e+05	749.73	0.16	-144.96	0.0	-1657.09	-539.63	7.22	83.69	-261.63	5.105e+05
		4.248e+05	-261.63	8.55e-04	0.0	140.0	-1662.62	-684.59	7.22	83.69	749.73	4.248e+05
126	4	2.991e+05	440.72	0.10	-100.10	0.0	-971.68	-308.91	4.27	45.05	-157.30	2.991e+05
		2.489e+05	-157.30	4.59e-04	0.0	140.0	-975.50	-409.01	4.27	45.05	440.72	2.489e+05
126	5	1.733e+05	412.55	0.06	-84.67	0.0	-718.87	-165.00	1.11	-14.98	256.98	1.733e+05
		1.442e+05	256.98	1.69e-04	0.0	140.0	-722.11	-249.67	1.11	-14.98	412.55	1.442e+05
126	6	1.723e+05	101.52	0.06	-84.67	0.0	-420.34	-165.46	3.58	35.41	-400.27	1.723e+05
		1.432e+05	-400.27	8.07e-04	0.0	140.0	-423.58	-250.12	3.58	35.41	101.52	1.432e+05
126	11	1.808e+05	334.27	0.04	-84.67	0.0	-587.06	-87.15	-3.55	2.73	334.27	1.808e+05
		1.627e+05	-162.56	-9.29e-05	0.0	140.0	-590.29	-171.82	-3.55	2.73	-162.56	1.627e+05
126	12	1.648e+05	687.96	0.07	-84.67	0.0	-553.49	-243.30	8.36	21.57	-481.97	1.648e+05
		1.248e+05	-481.97	9.86e-04	0.0	140.0	-556.72	-327.96	8.36	21.57	687.96	1.248e+05
127	1	3.187e+05	924.80	-0.12	-144.96	0.0	-1066.61	856.19	11.15	633.44	-636.31	2.089e+05
		2.089e+05	-636.31	-7.67e-04	0.0	140.0	-1072.14	711.23	11.15	633.44	924.80	3.187e+05
127	4	1.878e+05	537.66	-0.07	-100.10	0.0	-625.70	514.81	6.50	337.90	-372.76	1.228e+05
		1.228e+05	-372.76	-4.83e-04	0.0	140.0	-629.52	414.71	6.50	337.90	537.66	1.878e+05
127	6	1.099e+05	57.06	-0.04	-84.67	0.0	-516.12	319.42	5.04	211.69	-648.66	7.114e+04
		7.114e+04	-648.66	1.87e-03	0.0	140.0	-519.35	234.75	5.04	211.69	57.06	1.099e+05
127	9	1.127e+05	217.95	-0.05	-84.67	0.0	-704.06	425.65	2.56	172.12	-139.86	5.908e+04
		5.908e+04	-139.86	3.97e-04	0.0	140.0	-707.29	340.98	2.56	172.12	217.95	1.127e+05
127	12	1.075e+05	812.06	-0.03	-84.67	0.0	-57.74	220.10	10.18	161.90	-613.83	8.259e+04
		8.259e+04	-613.83	1.59e-04	0.0	140.0	-60.97	135.43	10.18	161.90	812.06	1.075e+05
127	17	1.126e+05	230.55	-0.05	-84.67	0.0	-738.07	424.78	2.71	174.58	-149.05	5.908e+04
		5.908e+04	-149.05	5.66e-04	0.0	140.0	-741.30	340.12	2.71	174.58	230.55	1.126e+05
127	18	1.075e+05	522.67	-0.03	-84.67	0.0	-2.20	221.08	6.13	146.58	-336.10	8.251e+04
		8.251e+04	-336.10	-9.18e-04	0.0	140.0	-5.43	136.42	6.13	146.58	522.67	1.075e+05
127	19	1.126e+05	97.32	-0.05	-84.67	0.0	-719.30	425.02	0.92	160.45	-31.72	5.899e+04
		5.899e+04	-31.72	-6.03e-04	0.0	140.0	-722.53	340.35	0.92	160.45	97.32	1.126e+05
128	1	-9.673e+05	2086.69	-0.10	-449.75	0.0	-4040.40	7341.75	-55.55	-2572.63	2086.69	-1.309e+06
		-1.309e+06	-577.28	1.29e-03	0.0	48.0	-4060.05	6892.00	-55.55	-2572.63	-577.28	-9.673e+05
128	3	-8.674e+05	1596.38	-0.09	-449.75	0.0	-3514.90	6649.30	-46.39	-2321.14	1596.38	-1.175e+06
		-1.175e+06	-628.39	1.17e-03	0.0	48.0	-3534.55	6199.56	-46.39	-2321.14	-628.39	-8.674e+05
128	4	-5.337e+05	1422.45	-0.06	-247.64	0.0	-2238.37	4046.48	-37.42	-1429.62	1422.45	-7.218e+05
		-7.218e+05	-371.90	7.94e-04	0.0	48.0	-2249.19	3798.84	-37.42	-1429.62	-371.90	-5.337e+05
128	5	-5.388e+05	1770.66	-0.06	-303.21	0.0	-2642.46	4101.47	291.50	-1535.49	-1.221e+04	-7.283e+05
		-7.283e+05	-1.221e+04	-4.51e-03	0.0	48.0	-2655.71	3798.26	291.50	-1535.49	1770.66	-5.388e+05
128	6	-5.049e+05	1.383e+04	-0.06	-303.21	0.0	-1431.24	3993.58	-346.63	-1286.60	1.383e+04	-6.891e+05
		-6.891e+05	-2793.00	5.92e-03	0.0	48.0	-1444.48	3690.37	-346.63	-1286.60	-2793.00	-5.049e+05
128	17	-5.786e+05	4674.12	-0.05	-303.21	0.0	-3966.51	4216.23	-133.70	-1530.50	4674.12	-7.735e+05
		-7.735e+05	-1737.14	2.51e-03	0.0	48.0	-3979.75	3913.02	-133.70	-1530.50	-1737.14	-5.786e+05
128	18	-4.654e+05	777.77	-0.06	-303.21	0.0	-121.19	3879.32	77.83	-1292.09	-2954.58	-6.441e+05
		-6.441e+05	-2954.58	-1.03e-03	0.0	48.0	-134.43	3576.11	77.83	-1292.09	777.77	-4.654e+05
129	1	3.520e+05	210.10	-0.14	-167.08	0.0	-1561.90	1002.10	2.77	45.68	-178.25	2.239e+05
		2.239e+05	-178.25	2.80e-04	0.0	140.1	-1568.28	835.02	2.77	45.68	210.10	3.520e+05
129	3	2.576e+05	210.28	-0.10	-142.70	0.0	-1173.58	745.12	2.69	30.50	-167.16	1.636e+05
		1.636e+05	-167.16	2.31e-04	0.0	140.1	-1179.03	602.42	2.69	30.50	210.28	2.576e+05
129	4	2.059e+05	106.02	-0.08	-111.94	0.0	-908.35	592.45	1.42	23.08	-92.74	1.311e+05
		1.311e+05	-92.74	1.38e-04	0.0	140.1	-912.62	480.50	1.42	23.08	106.02	2.059e+05
129	8	1.198e+05	-215.72	-0.04	-89.52	0.0	-781.39	331.58	1.30	136.19	-398.28	7.974e+04
		7.974e+04	-398.28	2.81e-03	0.0	140.1	-784.81	242.07	1.30	136.19	-215.72	1.198e+05
129	13	1.193e+05	670.91	-0.05	-89.52	0.0	-427.31	384.37	4.87	-121.07	-11.79	7.182e+04
		7.182e+04	-11.79	-3.04e-03	0.0	140.1	-430.72	294.85	4.87	-121.07	670.91	1.193e+05
129	17	1.159e+05	295.15	-0.06	-89.52	0.0	-874.16	481.74	4.25	49.74	-299.97	5.483e+04
		5.483e+04	-299.97	9.51e-04	0.0	140.1	-877.57	392.23	4.25	49.74	295.15	1.159e+05
129	18	1.231e+05	58.03	-0.03	-89.52	0.0	-257.77	234.20	0.18	-29.65	33.12	9.669e+04
		9.669e+04	33.12	-7.74e-04	0.0	140.1	-261.18	144.69	0.18	-29.65	58.03	1.231e+05
130	1	3.525e+05	213.87	-0.14	-168.05	0.0	-1594.72	983.26	2.83	46.38	-182.15	2.261e+05
		2.261e+05	-182.15	2.75e-04	0.0	140.0	-1601.14	815.21	2.83	46.38	213.87	3.525e+05

130	4	2.061e+05	108.22	-0.08	-112.45	0.0	-925.50	581.39	1.45	23.47	-95.02	1.323e+05
		1.323e+05	-95.02	1.35e-04	0.0	140.0	-929.80	468.94	1.45	23.47	108.22	2.061e+05
130	8	1.209e+05	-214.04	-0.05	-89.71	0.0	-534.80	340.29	1.33	136.45	-400.35	7.940e+04
		7.940e+04	-400.35	2.80e-03	0.0	140.0	-538.23	250.59	1.33	136.45	-214.04	1.209e+05
130	13	1.183e+05	667.34	-0.05	-89.71	0.0	-729.70	362.31	4.82	-120.91	-7.87	7.374e+04
		7.374e+04	-7.87	-3.03e-03	0.0	140.0	-733.13	272.61	4.82	-120.91	667.34	1.183e+05
130	17	1.164e+05	295.56	-0.06	-89.71	0.0	-879.14	480.82	4.26	49.98	-300.44	5.525e+04
		5.525e+04	-300.44	9.50e-04	0.0	140.0	-882.57	391.11	4.26	49.98	295.56	1.164e+05
130	18	1.228e+05	58.81	-0.03	-89.71	0.0	-305.99	222.35	0.19	-29.46	32.38	9.780e+04
		9.780e+04	32.38	-7.75e-04	0.0	140.0	-309.42	132.64	0.19	-29.46	58.81	1.228e+05
131	1	5.106e+05	1240.91	-0.03	-144.96	0.0	-1574.83	158.16	15.31	-15.94	-902.95	4.986e+05
		4.986e+05	-902.95	-8.37e-04	0.0	140.0	-1580.36	13.20	15.31	-15.94	1240.91	5.106e+05
131	4	2.992e+05	730.68	-0.02	-100.10	0.0	-923.35	100.29	9.06	-9.14	-537.41	2.921e+05
		2.921e+05	-537.41	-5.25e-04	0.0	140.0	-927.18	0.19	9.06	-9.14	730.68	2.992e+05
131	5	1.731e+05	678.46	-0.01	-84.67	0.0	-724.92	72.85	-2.85	-43.50	678.46	1.687e+05
		1.687e+05	279.91	-1.56e-03	0.0	140.0	-728.15	-11.82	-2.85	-43.50	279.91	1.731e+05
131	6	1.727e+05	548.06	-0.01	-84.67	0.0	-363.33	70.42	12.54	22.32	-1207.35	1.686e+05
		1.686e+05	-1207.35	1.30e-03	0.0	140.0	-366.56	-14.25	12.54	22.32	548.06	1.727e+05
131	11	1.807e+05	87.09	-0.02	-84.67	0.0	-587.58	152.29	-0.55	-20.09	87.09	1.653e+05
		1.653e+05	9.80	-6.50e-04	0.0	140.0	-590.81	67.63	-0.55	-20.09	9.80	1.807e+05
131	12	1.720e+05	850.14	8.18e-03	-84.67	0.0	-501.50	-8.81	10.68	3.58	-645.40	1.720e+05
		1.648e+05	-645.40	2.88e-04	0.0	140.0	-504.73	-93.48	10.68	3.58	850.14	1.720e+05
132	1	2.023e+05	767.16	-0.20	-144.96	0.0	-1083.43	1555.29	10.05	753.85	-639.55	-5302.11
		-5302.11	-639.55	-1.19e-03	0.0	140.0	-1088.97	1410.33	10.05	753.85	767.16	2.023e+05
132	4	1.192e+05	431.34	-0.12	-100.10	0.0	-634.35	924.74	5.66	403.06	-360.82	-3303.00
		-3303.00	-360.82	-7.10e-04	0.0	140.0	-638.17	824.64	5.66	403.06	431.34	1.192e+05
132	9	5.727e+04	225.26	-0.08	-84.67	0.0	-810.40	665.80	3.30	205.16	-236.36	-3.001e+04
		-3.001e+04	-225.26	2.54e-04	0.0	140.0	-813.63	581.13	3.30	205.16	225.26	5.727e+04
132	13	6.908e+04	1706.07	-0.07	-84.67	0.0	-295.09	564.56	16.85	130.89	-652.62	-4028.40
		-4028.40	-652.62	-5.99e-03	0.0	140.0	-298.32	479.90	16.85	130.89	1706.07	6.908e+04
132	16	6.895e+04	362.90	-0.07	-84.67	0.0	-464.35	554.86	-10.93	246.03	362.90	-2803.87
		-2803.87	-1167.37	5.50e-03	0.0	140.0	-467.58	470.20	-10.93	246.03	-1167.37	6.895e+04
132	17	5.725e+04	263.82	-0.08	-84.67	0.0	-842.10	664.77	3.82	207.51	-270.29	-2.989e+04
		-2.989e+04	-270.29	3.85e-04	0.0	140.0	-845.33	580.10	3.82	207.51	263.82	5.725e+04
132	18	8.080e+04	450.32	-0.06	-84.67	0.0	82.32	455.01	5.18	168.53	-275.57	2.303e+04
		2.303e+04	-275.57	-1.30e-03	0.0	140.0	79.09	370.34	5.18	168.53	450.32	8.080e+04
133	1	2.240e+05	256.36	-0.22	-167.07	0.0	-1556.51	1718.66	3.41	108.37	-220.76	-4520.63
		-4520.63	-220.76	1.46e-04	0.0	140.1	-1562.88	1551.60	3.41	108.37	256.36	2.240e+05
133	3	1.637e+05	278.49	-0.16	-142.69	0.0	-1176.18	1267.75	3.69	73.04	-238.21	-3519.62
		-3519.62	-238.21	4.80e-05	0.0	140.1	-1181.63	1125.06	3.69	73.04	278.49	1.637e+05
133	4	1.312e+05	125.94	-0.13	-111.94	0.0	-903.31	1011.91	1.68	56.14	-109.66	-2443.43
		-2443.43	-109.66	8.01e-05	0.0	140.1	-907.58	899.97	1.68	56.14	125.94	1.312e+05
133	13	7.296e+04	1432.92	-0.08	-89.51	0.0	-579.77	625.92	14.32	-101.12	-572.98	-8324.78
		-8324.78	-572.98	-5.69e-03	0.0	140.1	-583.18	536.40	14.32	-101.12	1432.92	7.296e+04
133	14	7.872e+04	359.84	-0.07	-89.51	0.0	-579.59	571.95	-10.72	151.41	359.84	4998.78
		4998.78	-1142.01	5.83e-03	0.0	140.1	-583.00	482.44	-10.72	151.41	-1142.01	7.872e+04
133	17	5.452e+04	234.98	-0.08	-89.51	0.0	-918.75	725.39	3.88	60.75	-308.10	-4.069e+04
		-4.069e+04	-308.10	1.08e-03	0.0	140.1	-922.16	635.88	3.88	60.75	234.98	5.452e+04
133	18	9.716e+04	131.49	-0.07	-89.51	0.0	-225.52	472.47	0.96	-9.96	-3.04	3.737e+04
		3.737e+04	-3.04	-1.11e-03	0.0	140.1	-228.94	382.96	0.96	-9.96	131.49	9.716e+04
134	1	2.257e+05	269.27	-0.22	-168.04	0.0	-1507.21	1717.02	3.59	109.12	-233.86	-3421.09
		-3421.09	-233.86	1.31e-04	0.0	140.0	-1513.63	1548.98	3.59	109.12	269.27	2.257e+05
134	3	1.649e+05	289.34	-0.16	-143.31	0.0	-1131.76	1266.00	3.85	73.57	-249.17	-2652.72
		-2652.72	-249.17	3.57e-05	0.0	140.0	-1137.24	1122.69	3.85	73.57	289.34	1.649e+05
134	4	1.321e+05	133.17	-0.13	-112.45	0.0	-876.01	1010.39	1.79	56.56	-117.00	-1759.09
		-1759.09	-117.00	7.18e-05	0.0	140.0	-880.31	897.95	1.79	56.56	133.17	1.321e+05
134	13	7.245e+04	1436.16	-0.08	-89.70	0.0	-847.17	608.88	14.37	-100.90	-575.88	-6631.82
		-6631.82	-575.88	-5.69e-03	0.0	140.0	-850.60	519.17	14.37	-100.90	1436.16	7.245e+04
134	14	8.012e+04	345.18	-0.08	-89.70	0.0	-260.84	585.86	-10.52	151.66	345.18	4259.23
		4259.23	-1127.71	5.81e-03	0.0	140.0	-264.27	496.16	-10.52	151.66	-1127.71	8.012e+04
134	17	5.540e+04	244.39	-0.08	-89.70	0.0	-825.72	729.97	4.01	60.98	-317.53	-4.063e+04
		-4.063e+04	-317.53	1.07e-03	0.0	140.0	-829.15	640.27	4.01	60.98	244.39	5.540e+04
134	18	9.717e+04	134.89	-0.07	-89.70	0.0	-266.67	464.85	1.01	-9.72	-6.44	3.825e+04
		3.825e+04	-6.44	-1.11e-03	0.0	140.0	-270.10	375.15	1.01	-9.72	134.89	9.717e+04
135	1	4.980e+05	760.14	-0.19	-144.97	0.0	-1496.55	856.96	9.36	-114.98	-550.66	3.882e+05
		3.882e+05	-550.66	-1.03e-03	0.0	140.0	-1502.09	711.99	9.36	-114.98	760.14	4.980e+05
135	4	2.918e+05	437.33	-0.11	-100.10	0.0	-877.58	510.10	5.40	-63.03	-319.17	2.274e+05
		2.274e+05	-319.17	-6.18e-04	0.0	140.0	-881.40	410.00	5.40	-63.03	437.33	2.918e+05
135	5	1.681e+05	2172.17	-0.06	-84.67	0.0	-682.93	307.95	23.63	-77.42	-1136.34	1.310e+05
		1.310e+05	-1136.34	-6.15e-03	0.0	140.0	-686.16	223.28	23.63	-77.42	2172.17	1.681e+05
135	6	1.687e+05	644.05	-0.06	-84.67	0.0	-350.74	309.67	-15.12	17.70	644.05	1.313e+05
		1.313e+05	-1472.33	5.35e-03	0.0	140.0	-353.97	225.00	-15.12	17.70	-1472.33	1.687e+05
135	11	1.650e+05	342.09	-0.08	-84.67	0.0	-595.77	392.05	-4.41	-43.38	342.09	1.161e+05
		1.161e+05	-275.79	-5.49e-04	0.0	140.0	-599.00	307.38	-4.41	-43.38	-275.79	1.650e+05
135	13	1.681e+05	2186.66	-0.06	-84.67	0.0	-672.40	308.18	24.16	-84.52	-1196.42	1.309e+05
		1.309e+05	-1196.42	-6.69e-03	0.0	140.0	-675.63	223.51	24.16	-84.52	2186.66	1.681e+05
135	14	1.688e+05	695.30	-0.06	-84.67	0.0	-360.19	309.37	-15.56	23.99	695.30	1.314e+05
		1.314e+05	-1482.59	5.87e-03	0.0	140.0	-363.42	224.70	-15.56	23.99	-1482.59	1.688e+05

135	20	1.720e+05	958.45	-0.05	-84.67	0.0	-407.76	226.75	12.73	-14.96	-823.08	1.462e+05
		1.462e+05	-823.08	-4.54e-04	0.0	140.0	-411.00	142.08	12.73	-14.96	958.45	1.720e+05
136	1	-1.041e+04	954.92	-0.21	-144.96	0.0	-1071.69	2282.93	15.15	604.75	-1166.69	-3.199e+05
		-3.199e+05	-1166.69	-1.49e-03	0.0	140.0	-1077.22	2137.97	15.15	604.75	954.92	-1.041e+04
136	4	-5957.36	539.85	-0.12	-100.10	0.0	-625.20	1359.44	8.54	306.13	-656.14	-1.893e+05
		-1.893e+05	-656.14	-8.80e-04	0.0	140.0	-629.02	1259.34	8.54	306.13	539.85	-5957.36
136	5	-4708.23	3740.51	-0.07	-84.67	0.0	-410.65	829.58	47.73	70.89	-2942.23	-1.149e+05
		-1.149e+05	-2942.23	-0.01	0.0	140.0	-413.88	744.91	47.73	70.89	3740.51	-4708.23
136	9	-3.109e+04	93.99	-0.07	-84.67	0.0	-926.78	934.80	2.57	133.74	-265.15	-1.560e+05
		-1.560e+05	-265.15	5.40e-04	0.0	140.0	-930.01	850.14	2.57	133.74	93.99	-3.109e+04
136	10	2.201e+04	876.92	-0.07	-84.67	0.0	161.63	715.93	12.00	92.31	-803.58	-7.230e+04
		-7.230e+04	-803.58	-1.98e-03	0.0	140.0	158.40	631.26	12.00	92.31	876.92	2.201e+04
136	15	-4783.91	3717.24	-0.07	-84.67	0.0	-431.28	830.93	48.00	61.81	-3003.36	-1.152e+05
		-1.152e+05	-3003.36	-0.01	0.0	140.0	-434.51	746.27	48.00	61.81	3717.24	-4783.91
136	17	-3.099e+04	127.76	-0.07	-84.67	0.0	-953.87	933.52	3.03	135.86	-296.41	-1.558e+05
		-1.558e+05	-296.41	6.66e-04	0.0	140.0	-957.11	848.85	3.03	135.86	127.76	-3.099e+04
136	18	2.191e+04	823.20	-0.07	-84.67	0.0	189.95	717.18	11.26	90.22	-753.51	-7.257e+04
		-7.257e+04	-753.51	-2.08e-03	0.0	140.0	186.72	632.51	11.26	90.22	823.20	2.191e+04
137	1	-5624.15	952.29	-0.23	-167.30	0.0	-1605.16	2400.85	16.51	128.40	-1362.67	-3.299e+05
		-3.299e+05	-1362.67	-4.22e-04	0.0	140.2	-1611.61	2233.56	16.51	128.40	952.29	-5624.15
137	4	-3023.77	502.01	-0.13	-112.08	0.0	-927.59	1415.58	8.80	65.67	-731.35	-1.933e+05
		-1.933e+05	-731.35	-2.16e-04	0.0	140.2	-931.91	1303.51	8.80	65.67	502.01	-3023.77
137	13	-7692.48	3151.89	-0.08	-89.61	0.0	-820.97	866.50	36.64	-85.07	-1983.71	-1.228e+05
		-1.228e+05	-1983.71	-0.01	0.0	140.2	-824.42	776.89	36.64	-85.07	3151.89	-7692.48
137	15	-7491.45	3116.64	-0.08	-89.61	0.0	-791.17	866.02	36.95	-89.02	-2062.48	-1.225e+05
		-1.225e+05	-2062.48	-9.97e-03	0.0	140.2	-794.63	776.41	36.95	-89.02	3116.64	-7491.45
137	17	-4.142e+04	684.10	-0.07	-89.61	0.0	-971.24	968.11	14.18	55.64	-1304.01	-1.707e+05
		-1.707e+05	-1304.01	1.13e-03	0.0	140.2	-974.69	878.50	14.18	55.64	684.10	-4.142e+04
137	18	3.749e+04	480.27	-0.09	-89.61	0.0	-230.32	708.87	5.56	2.74	-298.70	-5.549e+04
		-5.549e+04	-298.70	-1.86e-03	0.0	140.2	-233.77	619.26	5.56	2.74	480.27	3.749e+04
138	1	-2559.26	976.73	-0.23	-168.06	0.0	-1403.16	2420.52	16.91	130.05	-1390.67	-3.302e+05
		-3.302e+05	-1390.67	-4.47e-04	0.0	140.0	-1409.59	2252.46	16.91	130.05	976.73	-2559.26
138	4	-1302.73	515.56	-0.13	-112.46	0.0	-818.59	1425.92	9.02	66.64	-746.98	-1.933e+05
		-1.933e+05	-746.98	-2.30e-04	0.0	140.0	-822.89	1313.46	9.02	66.64	515.56	-1302.73
138	6	5603.23	240.15	-0.08	-89.71	0.0	-34.37	830.23	-15.04	136.65	240.15	-1.045e+05
		-1.045e+05	-1865.98	8.81e-03	0.0	140.0	-37.79	740.52	-15.04	136.65	-1865.98	5603.23
138	13	-7444.97	3147.51	-0.08	-89.71	0.0	-942.61	854.94	36.62	-84.47	-1979.90	-1.210e+05
		-1.210e+05	-1979.90	-9.99e-03	0.0	140.0	-946.04	765.23	36.62	-84.47	3147.51	-7444.97
138	15	-7273.73	3114.26	-0.08	-89.71	0.0	-864.07	853.83	36.96	-88.41	-2060.78	-1.206e+05
		-1.206e+05	-2060.78	-9.96e-03	0.0	140.0	-867.50	764.12	36.96	-88.41	3114.26	-7273.73
138	17	-4.010e+04	703.80	-0.07	-89.71	0.0	-725.91	979.21	14.50	56.52	-1326.44	-1.710e+05
		-1.710e+05	-1326.44	1.11e-03	0.0	140.0	-729.33	889.50	14.50	56.52	703.80	-4.010e+04
138	18	3.796e+04	483.42	-0.09	-89.71	0.0	-238.54	707.48	5.61	2.99	-302.02	-5.492e+04
		-5.492e+04	-302.02	-1.87e-03	0.0	140.0	-241.97	617.77	5.61	2.99	483.42	3.796e+04
139	1	3.869e+05	429.42	-0.33	-144.97	0.0	-1478.62	1555.31	7.02	-212.97	-554.06	1.794e+05
		1.794e+05	-554.06	-9.55e-04	0.0	140.0	-1484.15	1410.34	7.02	-212.97	429.42	3.869e+05
139	4	2.267e+05	248.36	-0.19	-100.10	0.0	-867.53	919.64	4.10	-116.42	-325.09	1.050e+05
		1.050e+05	-325.09	-5.66e-04	0.0	140.0	-871.35	819.54	4.10	-116.42	248.36	2.267e+05
139	5	1.301e+05	2450.94	-0.11	-84.67	0.0	-556.19	544.76	34.45	-114.85	-2372.06	5.979e+04
		5.979e+04	-2372.06	-8.40e-03	0.0	140.0	-559.42	460.09	34.45	-114.85	2450.94	1.301e+05
139	11	1.157e+05	588.47	-0.12	-84.67	0.0	-633.28	631.68	-7.81	-65.11	588.47	3.319e+04
		3.319e+04	-504.32	-4.70e-04	0.0	140.0	-636.52	547.01	-7.81	-65.11	-504.32	1.157e+05
139	12	1.460e+05	954.79	-0.10	-84.67	0.0	-378.97	460.44	14.94	-29.64	-1136.93	8.750e+04
		8.750e+04	-1136.93	-4.21e-04	0.0	140.0	-382.21	375.77	14.94	-29.64	954.79	1.460e+05
139	13	1.300e+05	2446.75	-0.11	-84.67	0.0	-546.59	545.15	34.62	-118.84	-2400.57	5.959e+04
		5.959e+04	-2400.57	-8.81e-03	0.0	140.0	-549.82	460.48	34.62	-118.84	2446.75	1.300e+05
139	19	1.158e+05	553.94	-0.12	-84.67	0.0	-658.28	630.35	-7.34	-64.33	553.94	3.344e+04
		3.344e+04	-572.99	-3.74e-04	0.0	140.0	-661.52	545.68	-7.34	-64.33	-572.99	1.158e+05
139	20	1.460e+05	922.35	-0.10	-84.67	0.0	-354.32	461.72	14.45	-31.33	-1100.88	8.725e+04
		8.725e+04	-1100.88	-5.10e-04	0.0	140.0	-357.55	377.05	14.45	-31.33	922.35	1.460e+05
140	1	-3.203e+05	855.94	-0.05	-45.45	0.0	-1017.31	2851.01	-29.49	-166.97	855.94	-4.445e+05
		-4.445e+05	-439.18	1.82e-04	0.0	43.9	-1019.05	2805.56	-29.49	-166.97	-439.18	-3.203e+05
140	2	-2.717e+05	974.86	-0.04	-36.64	0.0	-841.58	2430.09	-32.72	-152.60	974.86	-3.777e+05
		-3.777e+05	-462.33	1.98e-04	0.0	43.9	-842.98	2393.45	-32.72	-152.60	-462.33	-2.717e+05
140	4	-1.893e+05	478.38	-0.03	-31.39	0.0	-593.18	1685.12	-16.17	-105.51	478.38	-2.627e+05
		-2.627e+05	-231.85	8.40e-05	0.0	43.9	-594.38	1653.74	-16.17	-105.51	-231.85	-1.893e+05
140	5	-1.145e+05	4625.41	-0.02	-26.56	0.0	-794.37	1005.20	337.07	-93.35	-1.018e+04	-1.581e+05
		-1.581e+05	-1.018e+04	-4.47e-03	0.0	43.9	-795.38	978.64	337.07	-93.35	4625.41	-1.145e+05
140	6	-1.135e+05	1.016e+04	-0.02	-26.56	0.0	-1.28	995.77	-339.79	-20.60	1.016e+04	-1.567e+05
		-1.567e+05	-4762.70	4.48e-03	0.0	43.9	-2.30	969.21	-339.79	-20.60	-4762.70	-1.135e+05
140	9	-1.557e+05	1151.25	-0.01	-26.56	0.0	-1002.01	1115.26	-33.36	-51.69	1151.25	-2.041e+05
		-2.041e+05	-313.82	4.72e-04	0.0	43.9	-1003.03	1088.70	-33.36	-51.69	-313.82	-1.557e+05
140	10	-7.224e+04	304.79	-0.02	-26.56	0.0	242.08	885.51	35.26	-62.67	-1243.92	-1.106e+05
		-1.106e+05	-1243.92	-5.27e-04	0.0	43.9	241.07	858.96	35.26	-62.67	304.79	-7.224e+04
140	17	-1.554e+05	1074.22	-0.01	-26.56	0.0	-1028.21	1113.71	-30.55	-49.88	1074.22	-2.038e+05
		-2.038e+05	-267.46	5.03e-04	0.0	43.9	-1029.22	1087.16	-30.55	-49.88	-267.46	-1.554e+05
140	18	-7.251e+04	267.02	-0.02	-26.56	0.0	270.14	887.03	32.67	-64.44	-1167.83	-1.109e+05
		-1.109e+05	-1167.83	-5.59e-04	0.0	43.9	269.13	860.47	32.67	-64.44	267.02	-7.251e+04

141	1	-3.324e+05	554.67	-0.05	-41.46	0.0	-1925.52	2713.23	-19.63	409.43	554.67	-4.402e+05
		-4.402e+05	-231.19	5.09e-04	0.0	40.0	-1927.11	2671.77	-19.63	409.43	-231.19	-3.324e+05
141	2	-2.831e+05	952.27	-0.04	-33.42	0.0	-1564.21	2310.43	-30.58	344.93	952.27	-3.749e+05
		-3.749e+05	-272.16	4.22e-04	0.0	40.0	-1565.49	2277.00	-30.58	344.93	-272.16	-2.831e+05
141	4	-1.948e+05	457.92	-0.03	-28.63	0.0	-1109.93	1602.31	-15.72	236.01	457.92	-2.583e+05
		-2.583e+05	-171.62	3.04e-04	0.0	40.0	-1111.03	1573.69	-15.72	236.01	-171.62	-1.948e+05
141	5	-1.236e+05	7324.01	-0.02	-24.21	0.0	-1281.19	983.11	541.38	39.13	-1.435e+04	-1.624e+05
		-1.624e+05	-1.435e+04	-5.59e-03	0.0	40.0	-1282.12	958.89	541.38	39.13	7324.01	-1.236e+05
141	6	-1.043e+05	1.394e+04	-0.02	-24.21	0.0	-158.29	922.16	-532.83	237.75	1.394e+04	-1.408e+05
		-1.408e+05	-7391.34	5.95e-03	0.0	40.0	-159.21	897.95	-532.83	237.75	-7391.34	-1.043e+05
141	13	-1.231e+05	7180.44	-0.02	-24.21	0.0	-1291.69	982.56	533.97	33.13	-1.420e+04	-1.620e+05
		-1.620e+05	-1.420e+04	-5.59e-03	0.0	40.0	-1292.62	958.35	533.97	33.13	7180.44	-1.231e+05
141	14	-1.048e+05	1.376e+04	-0.02	-24.21	0.0	-148.00	922.69	-524.39	243.89	1.376e+04	-1.412e+05
		-1.412e+05	-7234.42	5.94e-03	0.0	40.0	-148.93	898.48	-524.39	243.89	-7234.42	-1.048e+05
141	17	-1.720e+05	1978.37	-0.01	-24.21	0.0	-1135.61	1084.10	-81.44	183.93	1978.37	-2.150e+05
		-2.150e+05	-1282.18	1.38e-03	0.0	40.0	-1136.54	1059.89	-81.44	183.93	-1282.18	-1.720e+05
141	18	-5.583e+04	1185.96	-0.02	-24.21	0.0	-312.53	821.07	88.61	93.14	-2361.64	-8.822e+04
		-8.822e+04	-2361.64	-9.93e-04	0.0	40.0	-313.45	796.85	88.61	93.14	1185.96	-5.583e+04
142	1	-3.278e+05	-693.77	-0.05	-41.73	0.0	-1822.04	2712.21	5.93	176.18	-939.59	-4.394e+05
		-4.394e+05	-939.59	5.51e-04	0.0	41.4	-1823.64	2670.48	5.93	176.18	-693.77	-3.278e+05
142	2	-2.791e+05	-307.49	-0.05	-33.56	0.0	-1554.28	2308.79	-8.41	146.74	-307.49	-3.741e+05
		-3.741e+05	-656.05	4.52e-04	0.0	41.4	-1555.56	2275.23	-8.41	146.74	-656.05	-2.791e+05
142	3	-2.407e+05	-475.38	-0.04	-37.17	0.0	-1336.02	2004.26	13.80	127.57	-1047.23	-3.230e+05
		-3.230e+05	-1047.23	4.25e-04	0.0	41.4	-1337.44	1967.08	13.80	127.57	-475.38	-2.407e+05
142	4	-1.920e+05	-414.86	-0.03	-29.00	0.0	-1067.48	1600.82	-0.59	98.13	-414.86	-2.577e+05
		-2.577e+05	-439.42	3.27e-04	0.0	41.4	-1068.59	1571.82	-0.59	98.13	-439.42	-1.920e+05
142	5	-1.212e+05	7114.82	-0.02	-24.81	0.0	-353.04	960.36	526.62	-40.98	-1.471e+04	-1.605e+05
		-1.605e+05	-1.471e+04	-5.64e-03	0.0	41.4	-353.98	935.55	526.62	-40.98	7114.82	-1.212e+05
142	6	-1.033e+05	1.325e+04	-0.02	-24.81	0.0	-901.25	943.06	-500.99	152.49	1.325e+04	-1.419e+05
		-1.419e+05	-7512.05	6.03e-03	0.0	41.4	-902.19	918.25	-500.99	152.49	-7512.05	-1.033e+05
142	17	-1.698e+05	1051.25	-0.01	-24.81	0.0	-1125.60	1090.27	-63.10	87.89	1051.25	-2.145e+05
		-2.145e+05	-1564.00	1.43e-03	0.0	41.4	-1126.54	1065.46	-63.10	87.89	-1564.00	-1.698e+05
142	18	-5.465e+04	1136.19	-0.02	-24.81	0.0	-120.09	813.10	87.32	23.82	-2482.92	-8.784e+04
		-8.784e+04	-2482.92	-1.00e-03	0.0	41.4	-121.04	788.29	87.32	23.82	1136.19	-5.465e+04
143	1	-1.776e+05	-24.01	-0.40	-144.97	0.0	-1472.29	2251.93	3.12	-302.65	-460.85	-1.275e+05
		-1.275e+05	-460.85	2.10e-04	0.0	140.0	-1477.82	2106.96	3.12	-302.65	-24.01	-1.776e+05
143	3	-1.297e+05	-0.90	-0.29	-128.19	0.0	-1080.54	1658.19	2.55	-202.92	-358.55	-9.348e+04
		-9.348e+04	-358.55	1.33e-04	0.0	140.0	-1085.43	1530.00	2.55	-202.92	-0.90	-1.297e+05
143	4	-1.040e+05	-27.43	-0.23	-100.10	0.0	-864.30	1328.19	1.67	-165.55	-260.55	-7.491e+04
		-7.491e+04	-260.55	1.32e-04	0.0	140.0	-868.12	1228.08	1.67	-165.55	-27.43	-1.040e+05
143	11	-3.277e+04	192.54	-0.13	-84.67	0.0	-681.26	871.71	-2.28	-75.58	192.54	-8.334e+04
		-8.334e+04	-126.52	-1.09e-03	0.0	140.0	-684.49	787.04	-2.28	-75.58	-126.52	-3.277e+04
143	12	-8.722e+04	132.97	-0.14	-84.67	0.0	-325.58	693.37	4.86	-58.01	-547.60	-3924.77
		-3924.77	-547.60	1.13e-03	0.0	140.0	-328.81	608.70	4.86	-58.01	132.97	-8.722e+04
143	15	-5.822e+04	922.67	-0.13	-84.67	0.0	-453.81	777.12	15.97	-198.83	-1313.66	-4.465e+04
		-4.465e+04	-1313.66	-6.96e-03	0.0	140.0	-457.04	692.45	15.97	-198.83	922.67	-5.822e+04
143	16	-6.178e+04	971.71	-0.14	-84.67	0.0	-552.18	788.60	-13.51	74.50	971.71	-4.270e+04
		-4.270e+04	-919.79	7.04e-03	0.0	140.0	-555.41	703.93	-13.51	74.50	-919.79	-6.178e+04
143	19	-3.302e+04	159.90	-0.13	-84.67	0.0	-699.67	870.10	-1.86	-75.14	159.90	-8.287e+04
		-8.287e+04	-100.50	-9.82e-04	0.0	140.0	-702.90	785.43	-1.86	-75.14	-100.50	-3.302e+04
143	20	-8.696e+04	106.77	-0.14	-84.67	0.0	-307.46	694.89	4.43	-59.88	-514.06	-4398.08
		-4398.08	-514.06	1.01e-03	0.0	140.0	-310.69	610.22	4.43	-59.88	106.77	-8.696e+04
144	1	-5.444e+05	-41.59	0.48	-1358.33	0.0	-3509.99	-3095.93	-2.61	-1196.02	-41.59	-5.444e+05
		-5.444e+05	-406.49	-7.55e-04	0.0	139.9	-3555.74	-4454.26	-2.61	-1196.02	-406.49	-5.444e+05
144	3	-4.814e+05	5.50	0.43	-1342.67	0.0	-3142.71	-2704.42	-2.54	-1074.51	5.50	-4.814e+05
		-4.814e+05	-350.26	-3.98e-04	0.0	139.9	-3187.93	-4047.09	-2.54	-1074.51	-350.26	-4.814e+05
144	4	-3.005e+05	-39.96	0.27	-747.21	0.0	-1924.74	-1706.13	-1.33	-668.16	-39.96	-3.005e+05
		-3.005e+05	-8885.51	-225.58	-5.59e-04	0.0	-1949.90	-2453.35	-1.33	-668.16	-8885.51	-3.005e+05
144	5	-2.963e+05	389.59	0.26	-895.04	0.0	-1992.63	-1549.84	-5.19	-774.88	389.59	-2.963e+05
		-2.963e+05	-337.25	1.56e-03	0.0	139.9	-2022.78	-2444.88	-5.19	-774.88	-337.25	-2.963e+05
144	7	-2.959e+05	399.09	0.26	-895.04	0.0	-1899.80	-1551.11	-5.16	-776.86	399.09	-2.959e+05
		-2.959e+05	-323.08	1.48e-03	0.0	139.9	-1929.94	-2446.15	-5.16	-776.86	-323.08	-2.959e+05
144	17	-3.210e+05	15.41	0.26	-895.04	0.0	-2286.84	-1478.50	-1.11	-694.21	15.41	-3.210e+05
		-3.210e+05	-139.23	6.29e-04	0.0	139.9	-2316.99	-2373.54	-1.11	-694.21	-139.23	-3.210e+05
144	18	-2.491e+05	65.17	0.25	-895.04	0.0	-1474.81	-1676.77	-2.51	-610.07	65.17	-2.491e+05
		-2.491e+05	-285.61	-7.83e-04	0.0	139.9	-1504.96	-2571.81	-2.51	-610.07	-285.61	-2.491e+05
145	1	-7.837e+05	-99.69	0.27	-1358.81	0.0	-3354.70	-1023.46	2.24	453.00	-413.03	-7.837e+05
		-7.837e+05	-413.03	-1.61e-04	0.0	140.0	-3407.15	-2382.27	2.24	453.00	-99.69	-7.837e+05
145	3	-6.970e+05	-45.72	0.24	-1343.05	0.0	-3010.54	-865.74	2.13	380.80	-344.43	-6.970e+05
		-6.970e+05	-44.812e+05	1.11e-04	0.0	140.0	-3062.38	-2208.79	2.13	380.80	-45.72	-6.970e+05
145	4	-4.318e+05	-71.99	0.15	-747.48	0.0	-1835.20	-560.94	1.16	242.42	-233.80	-4.318e+05
		-4.318e+05	-233.80	-1.57e-04	0.0	140.0	-1864.05	-1308.42	1.16	242.42	-71.99	-4.318e+05
145	7	-4.219e+05	368.19	0.14	-895.22	0.0	-2163.98	-452.01	1.47	118.82	368.19	-4.219e+05
		-4.219e+05	-162.98	2.70e-04	0.0	140.0	-2198.53	-1347.24	1.47	118.82	-162.98	-4.219e+05
145	8	-4.090e+05	-173.92	0.15	-895.22	0.0	-1434.28	-515.63	3.74	297.55	-173.92	-4.090e+05
		-4.090e+05	-697.93	-4.68e-04	0.0	140.0	-1468.83	-1410.85	3.74	297.55	-697.93	-4.090e+05
145	9	-4.358e+05	-15.52	0.14	-895.22	0.0	-2287.57	-373.10	2.11	272.05	-310.56	-4.358e+05
		-4.358e+05	-310.56	5.53e-04	0.0	140.0	-2322.12	-1268.33	2.11	272.05	-15.52	-4.358e+05

145	17	4.358e+05	-18.83	0.14	-895.22	0.0	-2354.70	-371.85	2.05	275.30	-305.23	4.358e+05
		3.208e+05	-305.23	7.56e-04	0.0	140.0	-2389.25	-1267.08	2.05	275.30	-18.83	3.208e+05
145	18	3.952e+05	38.99	0.15	-895.22	0.0	-1253.23	-595.31	0.92	140.82	-89.91	3.952e+05
		2.490e+05	-89.91	-7.15e-04	0.0	140.0	-1287.78	-1490.53	0.92	140.82	38.99	2.490e+05
146	1	7.925e+05	-109.25	-0.05	-1358.81	0.0	-3217.12	949.61	-2.17	451.15	-109.25	7.469e+05
		7.469e+05	-413.08	1.48e-03	0.0	140.0	-3269.56	-409.20	-2.17	451.15	-413.08	7.836e+05
146	3	7.077e+05	-60.44	-0.04	-1343.05	0.0	-2885.23	891.24	-2.03	378.06	-60.44	6.669e+05
		6.669e+05	-344.45	1.29e-03	0.0	140.0	-2937.06	-451.82	-2.03	378.06	-344.45	6.970e+05
146	4	4.366e+05	-70.48	-0.03	-747.48	0.0	-1759.60	522.79	-1.17	241.67	-70.48	4.114e+05
		4.114e+05	-233.83	7.90e-04	0.0	140.0	-1788.45	-224.68	-1.17	241.67	-233.83	4.317e+05
146	5	4.289e+05	306.45	-0.03	-895.22	0.0	-2437.96	600.32	-0.99	120.79	306.45	4.010e+05
		4.010e+05	167.27	-6.78e-04	0.0	140.0	-2472.51	-294.90	-0.99	120.79	167.27	4.217e+05
146	8	4.196e+05	-246.58	-0.02	-895.22	0.0	-1042.99	528.04	-3.22	294.41	-246.58	3.980e+05
		3.980e+05	-697.91	2.36e-03	0.0	140.0	-1077.54	-367.18	-3.22	294.41	-697.91	4.090e+05
146	9	4.392e+05	21.62	-0.03	-895.22	0.0	-2369.03	684.56	-2.37	269.47	21.62	4.028e+05
		4.028e+05	-310.55	1.68e-03	0.0	140.0	-2403.58	-210.66	-2.37	269.47	-310.55	4.357e+05
146	10	4.113e+05	-44.32	-0.02	-895.22	0.0	-1085.00	442.63	-0.31	142.03	-44.32	3.961e+05
		3.952e+05	-87.37	-1.92e-04	0.0	140.0	-1119.55	-452.59	-0.31	142.03	-87.37	3.952e+05
146	13	4.286e+05	286.42	-0.03	-895.22	0.0	-2452.10	597.49	-0.92	109.89	286.42	4.009e+05
		4.009e+05	157.60	-1.37e-03	0.0	140.0	-2486.65	-297.74	-0.92	109.89	157.60	4.217e+05
146	14	4.197e+05	-244.77	-0.02	-895.22	0.0	-975.39	529.36	-3.04	301.92	-244.77	3.980e+05
		3.980e+05	-670.29	2.94e-03	0.0	140.0	-1009.94	-365.86	-3.04	301.92	-670.29	4.092e+05
147	1	7.469e+05	-109.26	-0.30	-1358.81	0.0	-3157.65	2904.07	0.66	455.16	-202.22	4.366e+05
		4.366e+05	-202.22	2.30e-03	0.0	140.0	-3210.10	1545.25	0.66	455.16	-109.26	7.469e+05
147	3	6.670e+05	-60.48	-0.26	-1343.05	0.0	-2822.26	2645.14	0.79	382.80	-170.88	3.915e+05
		3.915e+05	-170.88	1.87e-03	0.0	140.0	-2874.10	1302.08	0.79	382.80	-60.48	6.670e+05
147	4	4.115e+05	-70.48	-0.16	-747.48	0.0	-1728.96	1602.77	0.33	243.68	-117.13	2.400e+05
		2.400e+05	-117.13	1.29e-03	0.0	140.0	-1757.81	855.30	0.33	243.68	-70.48	4.115e+05
147	5	4.010e+05	507.65	-0.16	-895.22	0.0	-2624.05	1661.64	-1.44	125.26	507.65	2.313e+05
		2.313e+05	306.39	-2.26e-03	0.0	140.0	-2658.60	766.42	-1.44	125.26	306.39	4.010e+05
147	6	3.980e+05	-250.02	-0.15	-895.22	0.0	-750.06	1580.58	4.08	293.60	-821.59	2.396e+05
		2.396e+05	-821.59	4.20e-03	0.0	140.0	-784.61	685.36	4.08	293.60	-250.02	3.980e+05
147	7	4.010e+05	516.42	-0.16	-895.22	0.0	-2581.20	1659.99	-1.54	121.83	516.42	2.315e+05
		2.315e+05	301.21	-2.34e-03	0.0	140.0	-2615.75	764.77	-1.54	121.83	301.21	4.010e+05
147	11	4.029e+05	1.75	-0.17	-895.22	0.0	-2348.54	1739.09	1.70	250.74	-236.74	2.224e+05
		2.224e+05	-236.74	9.62e-04	0.0	140.0	-2383.10	843.87	1.70	250.74	1.75	4.029e+05
147	17	4.027e+05	19.75	-0.17	-895.22	0.0	-2587.58	1753.68	1.77	276.11	-228.58	2.201e+05
		2.201e+05	-228.58	2.16e-03	0.0	140.0	-2622.13	858.46	1.77	276.11	19.75	4.027e+05
148	1	4.368e+05	458.44	-0.47	-1358.81	0.0	-3192.67	4782.22	-4.72	481.74	458.44	-1.364e+05
		-1.364e+05	-202.86	2.80e-03	0.0	140.0	-3245.12	3423.41	-4.72	481.74	-202.86	4.368e+05
148	4	2.401e+05	259.34	-0.26	-747.48	0.0	-1752.54	2634.62	-2.69	257.64	259.34	-7.574e+04
		-7.574e+04	-117.47	1.58e-03	0.0	140.0	-1781.39	1887.15	-2.69	257.64	-117.47	2.401e+05
148	6	2.398e+05	509.01	-0.25	-895.22	0.0	-580.79	2600.89	-9.51	311.01	509.01	-6.138e+04
		-6.138e+04	-822.01	7.01e-03	0.0	140.0	-615.34	1705.67	-9.51	311.01	-822.01	2.398e+05
148	17	2.203e+05	557.97	-0.26	-895.22	0.0	-2801.88	2787.58	-5.62	294.50	557.97	-1.070e+05
		-1.070e+05	-229.01	2.59e-03	0.0	140.0	-2836.43	1892.36	-5.62	294.50	-229.01	2.203e+05
148	18	2.509e+05	27.42	-0.24	-895.22	0.0	-564.82	2502.83	0.35	160.84	27.42	-3.649e+04
		-3.649e+04	-21.63	-2.30e-04	0.0	140.0	-599.37	1607.61	0.35	160.84	-21.63	2.509e+05
148	19	2.224e+05	587.32	-0.26	-895.22	0.0	-2615.93	2773.05	-5.83	271.20	587.32	-1.029e+05
		-1.029e+05	-228.89	1.52e-03	0.0	140.0	-2650.48	1877.82	-5.83	271.20	-228.89	2.224e+05
149	1	-1.361e+05	457.77	-0.46	-1358.81	0.0	-3341.81	6626.70	8.34	511.12	-709.43	-9.675e+05
		-9.675e+05	-709.43	1.76e-03	0.0	140.0	-3394.25	5267.88	8.34	511.12	457.77	-1.361e+05
149	3	-1.206e+05	419.18	-0.41	-1343.05	0.0	-2938.01	6013.23	8.33	440.80	-746.87	-8.675e+05
		-8.675e+05	-746.87	1.35e-03	0.0	140.0	-2989.85	4670.17	8.33	440.80	419.18	-1.206e+05
149	4	-7.560e+04	258.99	-0.25	-747.48	0.0	-1840.38	3651.11	5.03	272.86	-444.88	-5.338e+05
		-5.338e+05	-444.88	1.03e-03	0.0	140.0	-1869.23	2903.64	5.03	272.86	258.99	-7.560e+04
149	7	-8.136e+04	1882.19	-0.24	-895.22	0.0	-2739.10	3713.78	-12.44	163.37	1882.19	-5.383e+05
		-5.383e+05	140.72	-6.69e-03	0.0	140.0	-2773.65	2818.55	-12.44	163.37	140.72	-8.136e+04
149	8	-6.162e+04	536.31	-0.25	-895.22	0.0	-701.59	3621.75	25.58	334.91	-3044.37	-5.057e+05
		-5.057e+05	-3044.37	7.76e-03	0.0	140.0	-736.14	2726.52	25.58	334.91	536.31	-6.162e+04
149	17	-1.068e+05	557.47	-0.24	-895.22	0.0	-3121.48	3820.44	16.96	316.52	-1816.03	-5.787e+05
		-5.787e+05	-1816.03	1.97e-03	0.0	140.0	-3156.04	2925.21	16.96	316.52	557.47	-1.068e+05
149	18	-3.629e+04	714.01	-0.25	-895.22	0.0	-331.53	3515.57	-5.26	181.53	714.01	-4.655e+05
		-4.655e+05	-22.10	-6.61e-04	0.0	140.0	-366.08	2620.35	-5.26	181.53	-22.10	-3.629e+04
150	1	-3.309e+05	-499.84	-0.05	-44.50	0.0	-1348.45	2693.03	-7.56	-530.57	-499.84	-4.468e+05
		-4.468e+05	-827.72	2.18e-04	0.0	43.4	-1350.09	2648.53	-7.56	-530.57	-827.72	-3.309e+05
150	2	-2.809e+05	-182.50	-0.04	-35.84	0.0	-1147.55	2292.42	-14.11	-461.87	-182.50	-3.796e+05
		-3.796e+05	-794.84	2.30e-04	0.0	43.4	-1148.87	2256.58	-14.11	-461.87	-794.84	-2.809e+05
150	4	-1.952e+05	-313.75	-0.03	-30.80	0.0	-788.31	1592.61	-3.32	-321.28	-313.75	-2.636e+05
		-2.636e+05	-457.79	1.05e-04	0.0	43.4	-789.44	1561.81	-3.32	-321.28	-457.79	-1.952e+05
150	5	-1.171e+05	4523.96	-0.02	-26.15	0.0	-80.35	947.33	348.98	-223.54	-1.062e+04	-1.577e+05
		-1.577e+05	-1.062e+04	-4.45e-03	0.0	43.4	-81.31	921.18	348.98	-223.54	4523.96	-1.171e+05
150	6	-1.165e+05	9662.58	-0.02	-26.15	0.0	-865.65	953.64	-336.01	-150.23	9662.58	-1.573e+05
		-1.573e+05	-4918.93	4.48e-03	0.0	43.4	-866.61	927.49	-336.01	-150.23	-4918.93	-1.165e+05
150	9	-1.589e+05	240.35	-0.01	-26.15	0.0	-1179.89	1057.19	-18.39	-207.04	240.35	-2.042e+05
		-2.042e+05	-557.64	4.86e-04	0.0	43.4	-1180.85	1031.04	-18.39	-207.04	-557.64	-1.589e+05
150	10	-7.464e+04	290.97	-0.02	-26.15	0.0	246.76	843.53	35.67	-167.10	-1257.04	-1.107e+05
		-1.107e+05	-1257.04	-5.18e-04	0.0	43.4	245.80	817.37	35.67	-167.10	290.97	-7.464e+04

150	17	-1.586e+05	147.71	-0.01	-26.15	0.0	-1204.65	1056.09	-15.26	-204.97	147.71	-2.039e+05
		-2.039e+05	-514.40	5.16e-04	0.0	43.4	-1205.61	1029.94	-15.26	-204.97	-514.40	-1.586e+05
150	18	-7.489e+04	256.37	-0.02	-26.15	0.0	272.15	844.61	32.75	-169.11	-1164.69	-1.110e+05
		-1.110e+05	-1164.69	-5.50e-04	0.0	43.4	271.18	818.46	32.75	-169.11	256.37	-7.489e+04
151	1	-1.050e+04	961.01	-0.21	-144.96	0.0	-1061.62	2361.58	15.26	609.39	-1175.97	-3.310e+05
		-3.310e+05	-1175.97	-1.50e-03	0.0	140.0	-1067.15	2216.62	15.26	609.39	961.01	-1.050e+04
151	4	-6417.58	543.37	-0.12	-100.10	0.0	-620.46	1397.23	8.61	308.72	-661.51	-1.950e+05
		-1.950e+05	-661.51	-8.83e-04	0.0	140.0	-624.28	1297.13	8.61	308.72	543.37	-6417.58
151	5	-5826.86	3747.57	-0.07	-84.67	0.0	-542.35	833.52	47.84	72.11	-2950.31	-1.166e+05
		-1.166e+05	-2950.31	-0.01	0.0	140.0	-545.58	748.85	47.84	72.11	3747.57	-5826.86
151	9	-3.213e+04	92.21	-0.07	-84.67	0.0	-879.72	944.61	2.55	135.27	-265.28	-1.584e+05
		-1.584e+05	-265.28	5.44e-04	0.0	140.0	-882.95	859.95	2.55	135.27	92.21	-3.213e+04
151	10	2.131e+04	883.54	-0.07	-84.67	0.0	110.25	726.48	12.10	93.46	-810.44	-7.447e+04
		-7.447e+04	-810.44	-1.98e-03	0.0	140.0	107.02	641.81	12.10	93.46	883.54	2.131e+04
151	15	-5955.91	3721.95	-0.07	-84.67	0.0	-540.97	833.52	48.08	63.00	-3009.12	-1.167e+05
		-1.167e+05	-3009.12	-0.01	0.0	140.0	-544.20	748.86	48.08	63.00	3721.95	-5955.91
151	17	-3.201e+04	126.14	-0.07	-84.67	0.0	-907.38	943.67	3.02	137.40	-296.72	-1.582e+05
		-1.582e+05	-296.72	6.70e-04	0.0	140.0	-910.61	859.00	3.02	137.40	126.14	-3.201e+04
151	18	2.120e+04	829.87	-0.07	-84.67	0.0	139.02	727.40	11.36	91.37	-760.39	-7.471e+04
		-7.471e+04	-760.39	-2.09e-03	0.0	140.0	135.79	642.73	11.36	91.37	829.87	2.120e+04
152	1	2.086e+05	779.60	-0.20	-144.96	0.0	-1137.92	1672.69	10.23	755.29	-651.99	-1.547e+04
		-1.547e+04	-651.99	-1.21e-03	0.0	140.0	-1143.45	1527.73	10.23	755.29	779.60	2.086e+05
152	4	1.224e+05	438.54	-0.12	-100.10	0.0	-665.40	988.87	5.76	403.94	-368.03	-8994.01
		-8994.01	-368.03	-7.18e-04	0.0	140.0	-669.22	888.77	5.76	403.94	438.54	1.224e+05
152	9	5.861e+04	227.25	-0.08	-84.67	0.0	-807.56	697.85	3.33	205.82	-238.37	-3.316e+04
		-3.316e+04	-238.37	2.52e-04	0.0	140.0	-810.79	613.18	3.33	205.82	227.25	5.861e+04
152	13	7.004e+04	1730.14	-0.07	-84.67	0.0	-624.94	589.07	17.19	131.45	-676.80	-6504.18
		-6504.18	-676.80	-6.02e-03	0.0	140.0	-628.17	504.40	17.19	131.45	1730.14	7.004e+04
152	16	7.078e+04	368.19	-0.07	-84.67	0.0	-231.94	593.69	-11.01	246.68	368.19	-6405.35
		-6405.35	-1172.57	5.51e-03	0.0	140.0	-235.17	509.03	-11.01	246.68	-1172.57	7.078e+04
152	17	5.861e+04	265.65	-0.08	-84.67	0.0	-839.88	697.11	3.84	208.18	-272.15	-3.306e+04
		-3.306e+04	-272.15	3.83e-04	0.0	140.0	-843.11	612.45	3.84	208.18	265.65	5.861e+04
152	18	8.223e+04	459.75	-0.06	-84.67	0.0	12.81	485.93	5.32	169.06	-284.99	2.013e+04
		2.013e+04	-284.99	-1.31e-03	0.0	140.0	9.58	401.26	5.32	169.06	459.75	8.223e+04
152	20	8.231e+04	648.91	-0.06	-84.67	0.0	-27.03	487.63	7.82	181.77	-446.15	1.996e+04
		1.996e+04	-446.15	-3.08e-04	0.0	140.0	-30.26	402.97	7.82	181.77	648.91	8.231e+04
155	1	2.183e+04	0.0	-0.15	-542.83	0.0	15.72	271.41	0.0	-195.70	0.0	0.0
		0.0	0.0	2.37e-03	0.0	321.7	15.72	-271.41	0.0	-195.70	0.0	0.0
155	2	1.897e+04	0.0	-0.13	-471.78	0.0	-1.90	235.89	0.0	-168.13	0.0	0.0
		0.0	0.0	1.60e-03	0.0	321.7	-1.90	-235.89	0.0	-168.13	0.0	0.0
155	3	1.501e+04	0.0	-0.10	-373.33	0.0	25.80	186.66	0.0	-141.97	0.0	0.0
		0.0	0.0	2.12e-03	0.0	321.7	25.80	-186.66	0.0	-141.97	0.0	0.0
155	5	5885.95	0.0	-0.04	-146.35	0.0	-45.64	73.17	0.0	-65.63	0.0	0.0
		0.0	0.0	-1.82e-03	0.0	321.7	-45.64	-73.17	0.0	-65.63	0.0	0.0
155	14	5885.95	0.0	-0.04	-146.35	0.0	77.64	73.17	0.0	-63.46	0.0	0.0
		0.0	0.0	5.02e-03	0.0	321.7	77.64	-73.17	0.0	-63.46	0.0	0.0
155	19	5885.95	0.0	-0.04	-146.35	0.0	14.44	73.17	0.0	-61.39	0.0	0.0
		0.0	0.0	-9.48e-03	0.0	321.7	14.44	-73.17	0.0	-61.39	0.0	0.0
155	20	5885.95	0.0	-0.04	-146.35	0.0	22.45	73.17	0.0	-68.00	0.0	0.0
		0.0	0.0	0.01	0.0	321.7	22.45	-73.17	0.0	-68.00	0.0	0.0
157	1	-6.259e+04	288.17	-3.67e-04	-246.85	0.0	80.63	2418.80	16.08	-1126.05	-39.68	-1.094e+05
		-1.094e+05	-39.68	-1.29e-04	0.0	20.4	71.28	2171.95	16.08	-1126.05	288.17	-6.259e+04
157	2	-4.183e+04	269.27	-2.02e-04	-148.06	0.0	89.31	1662.11	11.36	-873.78	37.57	-7.422e+04
		-7.422e+04	37.57	-9.91e-05	0.0	20.4	83.70	1514.04	11.36	-873.78	269.27	-4.183e+04
157	3	-5.797e+04	140.10	-3.75e-04	-246.85	0.0	37.69	2171.89	13.97	-973.75	-144.72	-9.975e+04
		-9.975e+04	-144.72	-1.03e-04	0.0	20.4	28.34	1925.04	13.97	-973.75	140.10	-5.797e+04
157	4	-3.721e+04	117.77	-2.11e-04	-148.06	0.0	46.23	1415.22	9.24	-723.62	-70.64	-6.456e+04
		-6.456e+04	-70.64	-7.38e-05	0.0	20.4	40.62	1267.16	9.24	-723.62	117.77	-3.721e+04
157	5	-3.958e+04	-1699.73	-1.83e-04	-171.70	0.0	227.84	1364.75	45.22	-6426.27	-2621.99	-6.566e+04
		-6.566e+04	-2621.99	-1.02e-03	0.0	20.4	221.34	1193.05	45.22	-6426.27	-1699.73	-3.958e+04
157	6	-3.515e+04	3677.40	-3.42e-04	-171.70	0.0	-280.56	1325.29	-16.11	5280.83	3677.40	-6.043e+04
		-6.043e+04	3348.78	9.35e-04	0.0	20.4	-287.07	1153.59	-16.11	5280.83	3348.78	-3.515e+04
157	11	-7.138e+04	1738.68	6.50e-04	-171.70	0.0	-94.83	1686.28	10.57	-786.81	1523.03	-1.040e+05
		-1.040e+05	1523.03	-1.60e-04	0.0	20.4	-101.33	1514.58	10.57	-786.81	1738.68	-7.138e+04
157	12	-3291.44	-973.77	-1.18e-03	-171.70	0.0	76.37	1003.17	10.66	-387.43	-1191.08	-2.200e+04
		-2.200e+04	-1191.08	6.91e-05	0.0	20.4	69.86	831.47	10.66	-387.43	-973.77	-3291.44
157	15	-4.022e+04	-1746.48	-1.66e-04	-171.70	0.0	199.15	1371.04	61.53	-6725.70	-3001.33	-6.643e+04
		-6.643e+04	-3001.33	-1.11e-03	0.0	20.4	192.64	1199.34	61.53	-6725.70	-1746.48	-4.022e+04
157	16	-3.451e+04	4173.31	-3.59e-04	-171.70	0.0	-254.42	1319.00	-31.92	5589.28	4173.31	-5.966e+04
		-5.966e+04	3522.25	1.02e-03	0.0	20.4	-260.93	1147.30	-31.92	5589.28	3522.25	-3.451e+04
158	1	4.578e+04	0.0	-0.91	-1084.35	0.0	-19.78	542.54	0.0	421.70	0.0	0.0
		0.0	0.0	0.04	0.0	337.7	-19.52	-541.82	0.0	421.70	0.0	0.0
158	2	4.001e+04	0.0	-0.79	-947.72	0.0	-15.47	474.17	0.0	363.99	0.0	0.0
		0.0	0.0	0.04	0.0	337.7	-15.23	-473.54	0.0	363.99	0.0	0.0
158	4	2.502e+04	0.0	-0.53	-592.60	0.0	-11.67	296.49	0.0	247.17	0.0	0.0
		0.0	0.0	0.03	0.0	337.7	-11.52	-296.11	0.0	247.17	0.0	0.0
158	5	1.123e+04	0.0	-0.30	-265.92	0.0	16.62	133.04	0.0	138.83	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	16.68	-132.88	0.0	138.83	0.0	0.0

158	6	1.123e+04	0.0	-0.29	-265.92	0.0	-77.36	133.04	0.0	137.99	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-77.30	-132.88	0.0	137.99	0.0	0.0
158	9	1.123e+04	0.0	-0.32	-265.92	0.0	-12.75	133.04	0.0	143.07	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-12.68	-132.88	0.0	143.07	0.0	0.0
158	11	1.123e+04	0.0	-0.32	-265.92	0.0	-23.09	133.04	0.0	143.33	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	-23.02	-132.88	0.0	143.33	0.0	0.0
158	12	1.123e+04	0.0	-0.27	-265.92	0.0	-28.90	133.04	0.0	133.50	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-28.83	-132.88	0.0	133.50	0.0	0.0
158	13	1.123e+04	0.0	-0.30	-265.92	0.0	18.83	133.04	0.0	138.86	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	18.90	-132.88	0.0	138.86	0.0	0.0
159	1	4.578e+04	0.0	-1.18	-1084.34	0.0	-28.26	542.53	0.0	312.21	0.0	0.0
		0.0	0.0	0.05	0.0	337.7	-27.73	-541.81	0.0	312.21	0.0	0.0
159	2	4.001e+04	0.0	-1.01	-947.71	0.0	-22.02	474.17	0.0	263.66	0.0	0.0
		0.0	0.0	0.05	0.0	337.7	-21.55	-473.54	0.0	263.66	0.0	0.0
159	4	2.502e+04	0.0	-0.69	-592.60	0.0	-16.48	296.49	0.0	183.07	0.0	0.0
		0.0	0.0	0.03	0.0	337.7	-16.19	-296.11	0.0	183.07	0.0	0.0
159	5	1.123e+04	0.0	-0.40	-265.92	0.0	36.56	133.04	0.0	110.01	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	36.69	-132.88	0.0	110.01	0.0	0.0
159	7	1.123e+04	0.0	-0.40	-265.92	0.0	43.68	133.04	0.0	109.98	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	43.81	-132.88	0.0	109.98	0.0	0.0
159	8	1.123e+04	0.0	-0.40	-265.92	0.0	-84.04	133.04	0.0	110.38	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-83.91	-132.88	0.0	110.38	0.0	0.0
159	11	1.123e+04	0.0	-0.43	-265.92	0.0	-15.54	133.04	0.0	99.78	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-15.41	-132.88	0.0	99.78	0.0	0.0
159	19	1.123e+04	0.0	-0.43	-265.92	0.0	-14.80	133.04	0.0	99.86	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-14.66	-132.88	0.0	99.86	0.0	0.0
159	20	1.123e+04	0.0	-0.37	-265.92	0.0	-23.60	133.04	0.0	120.54	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-23.47	-132.88	0.0	120.54	0.0	0.0
163	1	2.419e+05	314.71	0.40	-144.96	0.0	-1817.87	-1972.54	-3.55	272.47	314.71	2.419e+05
		-4.438e+04	-181.63	3.09e-03	0.0	140.0	-1823.52	-2117.50	-3.55	272.47	-181.63	-4.438e+04
163	3	1.768e+05	332.70	0.30	-128.18	0.0	-1335.05	-1428.46	-3.96	177.67	332.70	1.768e+05
		-3.220e+04	-222.05	2.61e-03	0.0	140.0	-1340.04	-1556.64	-3.96	177.67	-222.05	-3.220e+04
163	4	1.416e+05	177.91	0.24	-100.10	0.0	-1067.18	-1147.69	-2.00	147.72	177.91	1.416e+05
		-2.607e+04	-101.70	1.75e-03	0.0	140.0	-1071.08	-1247.79	-2.00	147.72	-101.70	-2.607e+04
163	5	8.242e+04	1227.24	0.14	-84.66	0.0	-517.30	-644.12	-13.94	30.88	1227.24	8.242e+04
		-1.369e+04	-724.55	4.47e-03	0.0	140.0	-520.59	-728.79	-13.94	30.88	-724.55	-1.369e+04
163	6	8.108e+04	401.78	0.14	-84.66	0.0	-731.28	-648.48	8.59	71.79	401.78	8.108e+04
		-1.563e+04	-800.38	-1.60e-03	0.0	140.0	-734.58	-733.14	8.59	71.79	-800.38	-1.563e+04
163	11	1.114e+05	610.80	0.14	-84.66	0.0	-625.10	-572.83	-8.55	49.54	610.80	1.114e+05
		2.526e+04	-586.12	7.03e-04	0.0	140.0	-628.40	-657.49	-8.55	49.54	-586.12	2.526e+04
163	12	5.207e+04	258.96	0.13	-84.66	0.0	-623.52	-720.23	3.06	57.41	258.96	5.207e+04
		-5.468e+04	-169.45	2.17e-03	0.0	140.0	-626.81	-804.90	3.06	57.41	-169.45	-5.468e+04
163	13	8.262e+04	1130.63	0.14	-84.66	0.0	-510.21	-642.84	-12.48	21.37	1130.63	8.262e+04
		-1.330e+04	-616.74	3.72e-03	0.0	140.0	-513.50	-727.51	-12.48	21.37	-616.74	-1.330e+04
163	14	8.087e+04	293.43	0.14	-84.66	0.0	-738.22	-649.78	7.09	81.28	293.43	8.087e+04
		-1.603e+04	-699.60	-8.50e-04	0.0	140.0	-741.52	-734.44	7.09	81.28	-699.60	-1.603e+04
164	1	4.264e+05	281.79	0.31	-144.96	0.0	-1823.41	-1260.94	2.35	181.62	281.79	4.264e+05
		2.397e+05	-46.69	2.17e-03	0.0	140.0	-1829.05	-1405.90	2.35	181.62	-46.69	2.397e+05
164	2	3.646e+05	273.71	0.27	-116.87	0.0	-1560.67	-1082.89	2.67	162.40	273.71	3.646e+05
		2.048e+05	-100.15	1.56e-03	0.0	140.0	-1565.21	-1199.77	2.67	162.40	-100.15	2.048e+05
164	4	2.497e+05	168.37	0.18	-100.10	0.0	-1070.66	-730.92	1.44	98.31	168.37	2.497e+05
		1.404e+05	-33.40	1.22e-03	0.0	140.0	-1074.55	-831.02	1.44	98.31	-33.40	1.404e+05
164	5	1.446e+05	749.60	0.11	-84.66	0.0	-499.48	-404.18	-6.08	9.28	749.60	1.446e+05
		8.214e+04	-101.76	2.41e-03	0.0	140.0	-502.78	-488.85	-6.08	9.28	-101.76	8.214e+04
164	6	1.436e+05	199.26	0.11	-84.66	0.0	-739.74	-408.54	6.05	52.77	199.26	1.436e+05
		8.044e+04	-647.36	-3.36e-04	0.0	140.0	-743.04	-493.21	6.05	52.77	-647.36	8.044e+04
164	11	1.631e+05	422.80	0.10	-84.66	0.0	-652.01	-329.93	-5.66	25.83	422.80	1.631e+05
		1.110e+05	-369.38	3.77e-04	0.0	140.0	-655.30	-414.60	-5.66	25.83	-369.38	1.110e+05
164	12	1.251e+05	485.78	0.11	-84.66	0.0	-585.74	-483.22	5.83	40.54	485.78	1.251e+05
		5.155e+04	-330.18	1.64e-03	0.0	140.0	-589.04	-567.89	5.83	40.54	-330.18	5.155e+04
164	13	1.448e+05	650.75	0.11	-84.66	0.0	-496.64	-402.89	-4.65	-0.35	650.75	1.448e+05
		8.242e+04	-0.61	1.65e-03	0.0	140.0	-499.93	-487.55	-4.65	-0.35	-0.61	8.242e+04
164	14	1.435e+05	105.64	0.11	-84.66	0.0	-742.64	-409.83	4.70	62.11	105.64	1.435e+05
		8.015e+04	-552.66	4.08e-04	0.0	140.0	-745.93	-494.50	4.70	62.11	-552.66	8.015e+04
165	1	5.121e+05	751.86	0.16	-144.96	0.0	-1759.92	-549.65	7.26	83.72	751.86	5.121e+05
		4.250e+05	-263.86	8.74e-04	0.0	140.0	-1765.56	-694.61	7.26	83.72	-263.86	4.250e+05
165	4	3.000e+05	442.10	0.10	-100.10	0.0	-1033.56	-314.31	4.29	45.07	442.10	3.000e+05
		2.490e+05	-158.73	4.69e-04	0.0	140.0	-1037.45	-414.41	4.29	45.07	-158.73	2.490e+05
165	5	1.734e+05	403.82	0.05	-84.66	0.0	-467.97	-163.43	0.98	-14.94	403.82	1.734e+05
		1.446e+05	266.23	2.02e-04	0.0	140.0	-471.26	-248.09	0.98	-14.94	266.23	1.446e+05
165	6	1.727e+05	110.29	0.06	-84.66	0.0	-725.91	-169.42	3.71	35.39	110.29	1.727e+05
		1.431e+05	-409.41	7.84e-04	0.0	140.0	-729.21	-254.08	3.71	35.39	-409.41	1.431e+05
165	11	1.810e+05	333.57	0.04	-84.66	0.0	-627.62	-87.42	-3.54	2.74	333.57	1.810e+05
		1.629e+05	-161.69	-9.12e-05	0.0	140.0	-630.92	-172.08	-3.54	2.74	-161.69	1.629e+05
165	12	1.651e+05	688.60	0.07	-84.66	0.0	-565.03	-245.84	8.37	21.58	688.60	1.651e+05
		1.248e+05	-482.69	9.90e-04	0.0	140.0	-568.33	-330.51	8.37	21.58	-482.69	1.248e+05
166	1	5.117e+05	1234.76	-0.03	-144.96	0.0	-1850.19	160.58	15.22	-15.92	1234.76	5.117e+05
		4.993e+05	-895.36	-8.12e-04	0.0	140.0	-1855.83	15.62	15.22	-15.92	-895.36	4.993e+05

166	4	2.998e+05	726.98	-0.02	-100.10	0.0	-1086.84	101.68	9.00	-9.13	-532.91	2.925e+05
		2.925e+05	-532.91	-5.11e-04	0.0	140.0	-1090.74	1.59	9.00	-9.13	726.98	2.998e+05
166	5	1.736e+05	675.41	-0.01	-84.66	0.0	-471.64	77.91	-2.80	-43.44	675.41	1.686e+05
		1.686e+05	284.02	-1.54e-03	0.0	140.0	-474.93	-6.76	-2.80	-43.44	284.02	1.736e+05
166	6	1.727e+05	541.24	-0.01	-84.66	0.0	-778.05	68.38	12.44	22.27	-1200.82	1.688e+05
		1.688e+05	-1200.82	1.30e-03	0.0	140.0	-781.35	-16.28	12.44	22.27	541.24	1.724e+05
166	11	1.811e+05	90.41	-0.02	-84.66	0.0	-681.92	154.89	-0.60	-20.09	90.41	1.653e+05
		1.653e+05	7.01	-6.42e-04	0.0	140.0	-685.21	70.22	-0.60	-20.09	7.01	1.811e+05
166	12	1.721e+05	847.97	8.20e-03	-84.66	0.0	-567.46	-9.07	10.65	3.60	-643.06	1.721e+05
		1.649e+05	-643.06	2.95e-04	0.0	140.0	-570.76	-93.74	10.65	3.60	847.97	1.649e+05
167	1	4.999e+05	763.43	-0.19	-144.96	0.0	-1803.73	871.52	9.39	-114.96	-550.90	3.881e+05
		3.881e+05	-550.90	-1.02e-03	0.0	140.0	-1809.37	726.56	9.39	-114.96	763.43	4.999e+05
167	4	2.929e+05	438.96	-0.11	-100.10	0.0	-1059.68	518.11	5.41	-63.02	-319.13	2.273e+05
		2.273e+05	-319.13	-6.11e-04	0.0	140.0	-1063.57	418.01	5.41	-63.02	438.96	2.929e+05
167	5	1.691e+05	2184.63	-0.07	-84.67	0.0	-463.76	317.11	23.80	-77.34	-1147.41	1.307e+05
		1.307e+05	-1147.41	-6.14e-03	0.0	140.0	-467.05	232.44	23.80	-77.34	2184.63	1.691e+05
167	6	1.686e+05	651.67	-0.06	-84.67	0.0	-757.55	308.44	-15.23	17.64	651.67	1.314e+05
		1.314e+05	-1480.06	5.34e-03	0.0	140.0	-760.85	223.78	-15.23	17.64	-1480.06	1.686e+05
167	11	1.656e+05	341.77	-0.08	-84.67	0.0	-663.40	397.62	-4.40	-43.37	341.77	1.159e+05
		1.159e+05	-274.54	-5.48e-04	0.0	140.0	-666.70	312.95	-4.40	-43.37	-274.54	1.656e+05
167	13	1.691e+05	2199.76	-0.07	-84.67	0.0	-471.18	318.26	24.34	-84.45	-1208.10	1.305e+05
		1.305e+05	-1208.10	-6.69e-03	0.0	140.0	-474.47	233.59	24.34	-84.45	2199.76	1.691e+05
167	14	1.687e+05	703.11	-0.06	-84.67	0.0	-750.46	307.35	-15.67	23.93	703.11	1.316e+05
		1.316e+05	-1490.56	5.87e-03	0.0	140.0	-753.75	222.69	-15.67	23.93	-1490.56	1.687e+05
167	20	1.723e+05	960.21	-0.05	-84.67	0.0	-528.33	228.78	12.75	-14.95	-824.42	1.462e+05
		1.462e+05	-824.42	-4.52e-04	0.0	140.0	-531.63	144.12	12.75	-14.95	960.21	1.723e+05
168	1	3.897e+05	437.82	-0.33	-144.96	0.0	-1882.75	1582.31	7.11	-212.98	-558.00	1.783e+05
		1.783e+05	-558.00	-9.58e-04	0.0	140.0	-1888.39	1437.35	7.11	-212.98	437.82	3.897e+05
168	4	2.282e+05	252.67	-0.19	-100.10	0.0	-1106.02	934.43	4.14	-116.43	-326.95	1.044e+05
		1.044e+05	-326.95	-5.68e-04	0.0	140.0	-1109.92	834.33	4.14	-116.43	252.67	2.282e+05
168	5	1.315e+05	2435.23	-0.11	-84.67	0.0	-604.59	557.37	34.21	-114.85	-2353.77	5.941e+04
		5.941e+04	-2353.77	-8.36e-03	0.0	140.0	-607.89	472.71	34.21	-114.85	2435.23	1.315e+05
168	11	1.164e+05	582.64	-0.12	-84.67	0.0	-694.06	640.31	-7.71	-65.10	582.64	3.273e+04
		3.273e+04	-497.39	-4.77e-04	0.0	140.0	-697.35	555.65	-7.71	-65.10	-497.39	1.164e+05
168	12	1.465e+05	947.19	-0.10	-84.67	0.0	-589.40	463.84	14.83	-29.65	-1128.51	8.746e+04
		8.746e+04	-1128.51	-4.10e-04	0.0	140.0	-592.70	379.18	14.83	-29.65	947.19	1.465e+05
168	13	1.314e+05	2431.98	-0.11	-84.67	0.0	-611.58	558.32	34.39	-118.83	-2383.27	5.913e+04
		5.913e+04	-2383.27	-8.78e-03	0.0	140.0	-614.88	473.65	34.39	-118.83	2431.98	1.314e+05
168	19	1.165e+05	548.13	-0.12	-84.67	0.0	-721.37	638.89	-7.24	-64.33	548.13	3.299e+04
		3.299e+04	-466.08	-3.81e-04	0.0	140.0	-724.67	554.22	-7.24	-64.33	-466.08	1.165e+05
168	20	1.464e+05	915.02	-0.10	-84.67	0.0	-562.25	465.33	14.34	-31.34	-1092.70	8.720e+04
		8.720e+04	-1092.70	-4.99e-04	0.0	140.0	-565.55	380.67	14.34	-31.34	915.02	1.464e+05
169	1	1.808e+05	4.61	-0.40	-144.97	0.0	-1754.10	2294.99	3.51	-302.64	-486.24	-1.304e+05
		-1.304e+05	-486.24	1.91e-04	0.0	140.0	-1759.75	2150.02	3.51	-302.64	4.61	1.808e+05
169	3	1.318e+05	19.07	-0.29	-128.19	0.0	-1287.46	1687.24	2.82	-202.91	-376.34	-9.542e+04
		-9.542e+04	-376.34	1.22e-04	0.0	140.0	-1292.45	1559.05	2.82	-202.91	19.07	1.318e+05
169	4	1.058e+05	-11.41	-0.23	-100.10	0.0	-1030.21	1351.85	1.88	-165.54	-274.79	-7.649e+04
		-7.649e+04	-274.79	1.21e-04	0.0	140.0	-1034.11	1251.75	1.88	-165.54	-11.41	1.058e+05
169	11	3.345e+04	184.21	-0.13	-84.67	0.0	-651.19	882.72	-2.16	-75.55	184.21	-8.421e+04
		-8.421e+04	-118.07	-1.11e-03	0.0	140.0	-654.49	798.05	-2.16	-75.55	-118.07	3.345e+04
169	12	8.791e+04	139.64	-0.14	-84.67	0.0	-552.08	702.09	4.95	-58.03	-552.98	-4452.02
		-4452.02	-552.98	1.12e-03	0.0	140.0	-555.38	617.42	4.95	-58.03	139.64	8.791e+04
169	15	6.041e+04	952.98	-0.14	-84.67	0.0	-665.28	804.44	16.38	-198.84	-1340.78	-4.628e+04
		-4.628e+04	-1340.78	-6.98e-03	0.0	140.0	-668.58	719.77	16.38	-198.84	952.98	6.041e+04
169	16	6.083e+04	984.83	-0.13	-84.67	0.0	-534.27	779.86	-13.71	74.51	984.83	-4.242e+04
		-4.242e+04	-934.87	7.05e-03	0.0	140.0	-537.57	695.20	-13.71	74.51	-934.87	6.083e+04
169	19	3.370e+04	151.44	-0.13	-84.67	0.0	-674.69	881.08	-1.74	-75.12	151.44	-8.373e+04
		-8.373e+04	-91.95	-9.94e-04	0.0	140.0	-677.99	796.41	-1.74	-75.12	-91.95	3.370e+04
169	20	8.767e+04	113.46	-0.14	-84.67	0.0	-528.60	703.83	4.52	-59.89	-519.41	-4937.57
		-4937.57	-519.41	1.01e-03	0.0	140.0	-531.90	619.16	4.52	-59.89	113.46	8.767e+04
172	1	-6.369e+04	1320.77	-7.62e-03	-1244.36	0.0	-1978.74	-2313.02	1.35	9662.75	1190.72	-6.369e+04
		-3.463e+05	1190.72	6.80e-04	0.0	96.1	-2026.24	-3557.38	1.35	9662.75	-3.463e+05	
172	2	-6.423e+04	153.98	-7.38e-03	-805.46	0.0	-1665.39	-1895.95	-13.37	7742.77	153.98	-6.423e+04
		-2.854e+05	-1130.57	5.75e-04	0.0	96.1	-1696.13	-2701.41	-13.37	7742.77	-1130.57	-2.854e+05
172	3	-3.407e+04	2716.12	-4.45e-03	-1264.32	0.0	-1477.32	-1808.69	14.37	9200.86	1335.14	-3.407e+04
		-2.692e+05	1335.14	4.95e-04	0.0	96.1	-1525.58	-3073.01	14.37	9200.86	2716.12	-2.692e+05
172	4	-3.462e+04	297.11	-4.21e-03	-825.43	0.0	-1163.89	-1391.76	-0.42	7280.51	297.11	-3.462e+04
		-2.083e+05	256.59	3.90e-04	0.0	96.1	-1195.39	-2217.19	-0.42	7280.51	256.59	-2.083e+05
172	7	-2488.63	2.944e+04	-1.22e-03	-873.87	0.0	-826.20	-897.31	-239.80	5193.56	2.944e+04	-2488.63
		-1.311e+05	6395.96	-1.35e-03	0.0	96.1	-859.55	-1771.18	-239.80	5193.56	6395.96	-1.311e+05
172	8	-9295.90	-3067.16	-1.13e-03	-873.87	0.0	-625.06	-967.47	-239.80	9194.44	-2.505e+04	-9295.90
		-1.446e+05	-2.505e+04	1.90e-03	0.0	96.1	-658.42	-1841.34	-239.80	9194.44	-3067.16	-1.446e+05
172	9	6.896e+04	1.737e+04	1.77e-03	-873.87	0.0	-211.79	655.98	137.01	3688.84	4206.01	4.556e+04
		4.556e+04	4206.01	-2.64e-04	0.0	96.1	-245.14	-217.89	137.01	3688.84	1.737e+04	6.622e+04
172	10	-5.763e+04	-2412.44	-4.13e-03	-873.87	0.0	-1212.13	-2520.14	-110.92	1.002e+04	-2412.44	-5.763e+04
		-3.421e+05	-1.307e+04	6.70e-04	0.0	96.1	-1245.48	-3394.01	-110.92	1.002e+04	-1.307e+04	-3.421e+05
172	12	-5.701e+04	619.94	-4.06e-03	-873.87	0.0	-1097.16	-2527.04	-69.39	1.089e+04	619.94	-5.701e+04
		-3.422e+05	-6047.13	1.44e-03	0.0	96.1	-1130.52	-3400.91	-69.39	1.089e+04	-6047.13	-3.422e+05

173	1	3.610e+04	1.036e+04	3.53e-03	-1749.80	0.0	-943.36	14.71	-66.83	1.103e+04	1.036e+04	3.610e+04
		-8.303e+04	1059.14	5.41e-04	0.0	139.2	-1022.79	-1735.09	-66.83	1.103e+04	1059.14	-8.303e+04
173	2	3.411e+04	9719.86	3.65e-03	-1137.88	0.0	-802.18	-257.84	-69.49	8865.31	9719.86	3.411e+04
		-8.064e+04	47.22	5.72e-04	0.0	139.2	-853.84	-1395.72	-69.49	8865.31	47.22	-8.064e+04
173	4	2.141e+04	6035.53	1.89e-03	-1165.26	0.0	-544.33	99.02	-41.88	8110.86	6035.53	2.086e+04
		-4.610e+04	206.98	3.65e-04	0.0	139.2	-597.23	-1066.24	-41.88	8110.86	206.98	-4.610e+04
173	7	2.071e+04	2.964e+04	-9.35e-04	-1231.70	0.0	-440.89	500.39	299.14	99.41	-1.200e+04	6486.54
		-9196.25	-1.200e+04	-5.29e-03	0.0	139.2	-496.80	-731.31	299.14	99.41	2.964e+04	-9196.25
173	8	1.937e+04	1.600e+04	9.07e-04	-1231.70	0.0	-200.61	428.05	-297.05	1.406e+04	1.600e+04	8955.32
		-1.680e+04	-2.534e+04	5.39e-03	0.0	139.2	-256.52	-803.66	-297.05	1.406e+04	-2.534e+04	-1.680e+04
173	11	4.987e+04	7818.61	-3.19e-03	-1231.70	0.0	-827.53	2074.48	-44.41	5643.37	7818.61	-1.535e+05
		-1.535e+05	1637.30	-2.00e-03	0.0	139.2	-883.45	842.77	-44.41	5643.37	1637.30	4.987e+04
173	12	1.692e+05	630.30	3.53e-03	-1231.70	0.0	195.69	-1147.59	28.77	8937.39	-3373.47	1.692e+05
		-7.590e+04	-3373.47	2.22e-03	0.0	139.2	139.78	-2379.29	28.77	8937.39	630.30	-7.590e+04
173	19	4.977e+04	7655.26	-3.19e-03	-1231.70	0.0	-856.77	2066.59	-42.30	5750.53	7655.26	-1.525e+05
		-1.525e+05	1768.26	-1.89e-03	0.0	139.2	-912.68	834.89	-42.30	5750.53	1768.26	4.977e+04
173	20	1.682e+05	426.14	3.53e-03	-1231.70	0.0	225.35	-1139.76	25.93	8844.86	-3183.29	1.682e+05
		-7.580e+04	-3183.29	2.11e-03	0.0	139.2	169.44	-2371.46	25.93	8844.86	426.14	-7.580e+04
174	1	7.735e+04	2.757e+04	-0.03	-4457.25	0.0	12.33	2111.09	146.55	7.814e+04	-2.428e+04	-9.896e+04
		-1.405e+05	-2.428e+04	-0.01	0.0	353.7	12.35	-2346.15	146.55	7.814e+04	2.757e+04	-1.405e+05
174	2	4.692e+04	2.342e+04	-0.02	-2702.65	0.0	28.37	1286.19	120.28	6.733e+04	-1.913e+04	-6.107e+04
		-8.411e+04	-1.913e+04	-9.16e-03	0.0	353.7	28.38	-1416.46	120.28	6.733e+04	2.342e+04	-8.411e+04
174	3	7.732e+04	2.027e+04	-0.03	-4457.25	0.0	-15.48	2105.56	112.22	5.662e+04	-1.943e+04	-9.801e+04
		-1.415e+05	-1.943e+04	-6.92e-03	0.0	353.7	-15.46	-2351.69	112.22	5.662e+04	2.027e+04	-1.415e+05
174	5	6.126e+04	1.758e+04	-0.02	-3113.00	0.0	-204.86	2044.99	108.64	2.521e+04	-2.085e+04	-1.758e+05
		-1.758e+05	-2.085e+04	-4.91e-03	0.0	353.7	-204.85	-1068.01	108.64	2.521e+04	1.758e+04	-3036.34
174	13	6.230e+04	1.714e+04	-0.02	-3113.00	0.0	-214.54	2062.88	105.22	2.504e+04	-2.008e+04	-1.791e+05
		-1.791e+05	-2.008e+04	-5.54e-03	0.0	353.7	-214.53	-1050.12	105.22	2.504e+04	1.714e+04	-16.80
174	14	8.640e+04	1576.36	-0.03	-3113.00	0.0	95.06	868.93	5.00	2.661e+04	-191.25	4.396e+04
		-1.993e+05	-191.25	-2.74e-04	0.0	353.7	95.07	-2244.07	5.00	2.661e+04	1576.36	-1.993e+05
174	16	8.739e+04	1841.87	-0.03	-3113.00	0.0	22.40	859.15	6.83	2.664e+04	-575.40	4.582e+04
		-2.009e+05	-575.40	-2.06e-04	0.0	353.7	22.41	-2253.85	6.83	2.664e+04	1841.87	-2.009e+05
175	1	4.766e+04	1596.70	8.48e-03	-1261.35	0.0	-365.49	-660.05	24.00	-1050.54	-904.85	4.766e+04
		-8.684e+04	-904.85	-8.04e-04	0.0	104.2	-413.69	-1921.39	24.00	-1050.54	1596.70	-8.684e+04
175	4	2.798e+04	911.38	5.00e-03	-756.55	0.0	-216.38	-381.43	13.93	-678.74	-540.68	2.798e+04
		-5.119e+04	-540.68	-4.81e-04	0.0	104.2	-245.29	-1137.97	13.93	-678.74	911.38	-5.119e+04
175	5	2.655e+04	7427.91	5.08e-03	-877.34	0.0	244.63	-291.20	52.53	-6380.52	1953.83	2.655e+04
		-4.951e+04	1953.83	-4.63e-03	0.0	104.2	211.10	-1168.55	52.53	-6380.52	7427.91	-4.951e+04
175	6	2.534e+04	-4712.70	4.94e-03	-877.34	0.0	-567.31	-332.01	-3.35	5322.59	-4712.70	2.534e+04
		-5.497e+04	-5061.31	3.79e-03	0.0	104.2	-600.83	-1209.35	-3.35	5322.59	-5061.31	-5.497e+04
175	9	3.705e+04	240.56	6.75e-03	-877.34	0.0	256.01	-31.73	-0.49	-230.58	240.56	3.705e+04
		-1.197e+04	189.58	2.45e-04	0.0	104.2	222.49	-909.07	-0.49	-230.58	189.58	-1.197e+04
175	10	1.482e+04	1596.55	3.97e-03	-877.34	0.0	-579.10	-591.80	27.67	-864.22	-1287.05	1.482e+04
		-9.257e+04	-1287.05	-9.41e-04	0.0	104.2	-612.62	-1469.14	27.67	-864.22	1596.55	-9.257e+04
175	11	3.854e+04	521.12	6.97e-03	-877.34	0.0	221.79	5.39	7.89	-703.38	-301.26	3.854e+04
		-6611.21	-301.26	-4.55e-04	0.0	104.2	188.27	-871.95	7.89	-703.38	521.12	-6611.21
175	12	1.333e+04	1681.09	3.95e-03	-877.34	0.0	-558.29	-629.07	31.16	-383.63	-1566.65	1.333e+04
		-9.794e+04	-1566.65	-3.28e-04	0.0	104.2	-591.82	-1506.42	31.16	-383.63	1681.09	-9.794e+04
176	1	4.578e+04	0.0	-1.33	-1084.32	0.0	-22.64	542.52	0.0	-112.41	0.0	0.0
		0.0	0.0	0.06	0.0	337.7	-21.58	-541.80	0.0	-112.41	0.0	0.0
176	3	3.079e+04	0.0	-0.97	-729.22	0.0	-20.90	364.84	0.0	-79.48	0.0	0.0
		0.0	0.0	0.04	0.0	337.7	-20.19	-364.37	0.0	-79.48	0.0	0.0
176	4	2.502e+04	0.0	-0.78	-592.59	0.0	-12.72	296.48	0.0	-65.83	0.0	0.0
		0.0	0.0	0.03	0.0	337.7	-12.14	-296.10	0.0	-65.83	0.0	0.0
176	5	1.123e+04	0.0	-0.45	-265.92	0.0	-23.67	133.04	0.0	-35.07	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-23.41	-132.88	0.0	-35.07	0.0	0.0
176	8	1.123e+04	0.0	-0.45	-265.92	0.0	-36.27	133.04	0.0	-33.96	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-36.01	-132.88	0.0	-33.96	0.0	0.0
176	15	1.123e+04	0.0	-0.45	-265.92	0.0	-13.91	133.04	0.0	-35.38	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-13.65	-132.88	0.0	-35.38	0.0	0.0
176	17	1.123e+04	0.0	-0.45	-265.92	0.0	-1.99	133.04	0.0	-53.18	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-1.72	-132.88	0.0	-53.18	0.0	0.0
176	18	1.123e+04	0.0	-0.45	-265.92	0.0	-28.44	133.04	0.0	-15.91	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-28.18	-132.88	0.0	-15.91	0.0	0.0
177	1	2.394e+04	0.0	-0.22	-567.14	0.0	-99.94	284.01	0.0	-276.97	0.0	0.0
		0.0	0.0	2.69e-03	0.0	337.8	-100.31	-283.12	0.0	-276.97	0.0	0.0
177	3	1.647e+04	0.0	-0.15	-390.13	0.0	-89.42	195.36	0.0	-197.45	0.0	0.0
		0.0	0.0	2.30e-03	0.0	337.8	-89.67	-194.77	0.0	-197.45	0.0	0.0
177	4	1.334e+04	0.0	-0.12	-315.88	0.0	-68.97	158.18	0.0	-162.38	0.0	0.0
		0.0	0.0	1.50e-03	0.0	337.8	-69.18	-157.70	0.0	-162.38	0.0	0.0
177	5	6461.17	0.0	-0.06	-153.03	0.0	-74.17	76.61	0.0	-88.46	0.0	0.0
		0.0	0.0	-1.73e-03	0.0	337.8	-74.27	-76.42	0.0	-88.46	0.0	0.0
177	12	6461.17	0.0	-0.06	-153.03	0.0	-69.25	76.61	0.0	-87.81	0.0	0.0
		0.0	0.0	5.76e-03	0.0	337.8	-69.35	-76.42	0.0	-87.81	0.0	0.0
177	13	6461.17	0.0	-0.06	-153.03	0.0	-75.82	76.61	0.0	-88.63	0.0	0.0
		0.0	0.0	-2.35e-03	0.0	337.8	-75.92	-76.42	0.0	-88.63	0.0	0.0
177	14	6461.17	0.0	-0.06	-153.03	0.0	-47.97	76.61	0.0	-85.83	0.0	0.0
		0.0	0.0	5.15e-03	0.0	337.8	-48.07	-76.42	0.0	-85.83	0.0	0.0

177	20	6461.17	0.0	-0.06	-153.03	0.0	-67.70	76.61	0.0	-88.16	0.0	0.0
		0.0	0.0	4.89e-03	0.0	337.8	-67.80	-76.42	0.0	-88.16	0.0	0.0
178	1	4.571e+04	0.0	-0.59	-1082.73	0.0	-44.59	541.99	0.0	-466.36	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	-42.74	-540.74	0.0	-466.36	0.0	0.0
178	4	2.498e+04	0.0	-0.33	-591.73	0.0	-26.18	296.20	0.0	-273.52	0.0	0.0
		0.0	0.0	9.17e-03	0.0	337.7	-25.17	-295.53	0.0	-273.52	0.0	0.0
178	5	1.121e+04	0.0	-0.17	-265.56	0.0	48.10	132.92	0.0	-160.30	0.0	0.0
		0.0	0.0	2.77e-03	0.0	337.7	48.56	-132.64	0.0	-160.30	0.0	0.0
178	7	1.121e+04	0.0	-0.17	-265.56	0.0	49.88	132.92	0.0	-160.23	0.0	0.0
		0.0	0.0	2.69e-03	0.0	337.7	50.34	-132.64	0.0	-160.23	0.0	0.0
178	8	1.121e+04	0.0	-0.16	-265.56	0.0	-118.57	132.92	0.0	-161.46	0.0	0.0
		0.0	0.0	8.65e-03	0.0	337.7	-118.11	-132.64	0.0	-161.46	0.0	0.0
178	19	1.121e+04	0.0	-0.16	-265.56	0.0	-40.98	132.92	0.0	-135.81	0.0	0.0
		0.0	0.0	1.76e-03	0.0	337.7	-40.52	-132.64	0.0	-135.81	0.0	0.0
178	20	1.121e+04	0.0	-0.18	-265.56	0.0	-4.95	132.92	0.0	-185.96	0.0	0.0
		0.0	0.0	9.56e-03	0.0	337.7	-4.49	-132.64	0.0	-185.96	0.0	0.0
179	1	4.578e+04	0.0	-0.87	-1084.29	0.0	0.75	542.51	0.0	-436.89	0.0	0.0
		0.0	0.0	0.03	0.0	337.7	2.34	-541.79	0.0	-436.89	0.0	0.0
179	2	4.001e+04	0.0	-0.75	-947.66	0.0	1.51	474.15	0.0	-374.93	0.0	0.0
		0.0	0.0	0.03	0.0	337.7	2.91	-473.52	0.0	-374.93	0.0	0.0
179	3	3.079e+04	0.0	-0.62	-729.20	0.0	0.25	364.84	0.0	-318.03	0.0	0.0
		0.0	0.0	0.02	0.0	337.7	1.32	-364.37	0.0	-318.03	0.0	0.0
179	5	1.123e+04	0.0	-0.28	-265.91	0.0	119.80	133.03	0.0	-146.75	0.0	0.0
		0.0	0.0	9.03e-03	0.0	337.7	120.19	-132.88	0.0	-146.75	0.0	0.0
179	7	1.123e+04	0.0	-0.28	-265.91	0.0	129.99	133.03	0.0	-146.81	0.0	0.0
		0.0	0.0	8.95e-03	0.0	337.7	130.38	-132.88	0.0	-146.81	0.0	0.0
179	8	1.123e+04	0.0	-0.27	-265.91	0.0	-150.81	133.03	0.0	-145.61	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	-150.42	-132.88	0.0	-145.61	0.0	0.0
179	11	1.123e+04	0.0	-0.26	-265.91	0.0	-19.54	133.03	0.0	-154.72	0.0	0.0
		0.0	0.0	6.93e-03	0.0	337.7	-19.15	-132.88	0.0	-154.72	0.0	0.0
179	18	1.123e+04	0.0	-0.29	-265.91	0.0	14.49	133.03	0.0	-138.80	0.0	0.0
		0.0	0.0	0.01	0.0	337.7	14.88	-132.88	0.0	-138.80	0.0	0.0
180	1	-4.440e+04	775.66	0.40	-145.57	0.0	-1736.92	-2632.71	-14.90	335.19	775.66	-4.440e+04
		-4.248e+05	-1319.45	3.49e-03	0.0	140.6	-1742.48	-2778.27	-14.90	335.19	-1319.45	-4.248e+05
180	4	-2.606e+04	450.57	0.23	-100.52	0.0	-1018.45	-1536.50	-8.71	182.31	450.57	-2.606e+04
		-2.491e+05	-774.45	1.98e-03	0.0	140.6	-1022.28	-1637.02	-8.71	182.31	-774.45	-2.491e+05
180	5	-1.372e+04	1457.34	0.14	-85.02	0.0	-660.82	-875.75	-18.54	48.42	1457.34	-1.372e+04
		-1.428e+05	-1149.19	5.86e-03	0.0	140.6	-664.07	-960.77	-18.54	48.42	-1149.19	-1.428e+05
180	9	2.270e+04	755.08	0.15	-85.02	0.0	-457.85	-809.20	-14.07	78.42	755.08	2.270e+04
		-9.703e+04	-1222.42	1.77e-03	0.0	140.6	-461.10	-894.22	-14.07	78.42	-1222.42	-9.703e+04
180	10	-5.212e+04	195.89	0.12	-85.02	0.0	-681.90	-941.80	-4.15	69.29	195.89	-5.212e+04
		-1.905e+05	-386.95	1.45e-03	0.0	140.6	-685.15	-1026.82	-4.15	69.29	-386.95	-1.905e+05
180	11	2.526e+04	933.52	0.15	-85.02	0.0	-513.39	-804.67	-16.62	67.39	933.52	2.526e+04
		-9.384e+04	-1402.38	8.36e-04	0.0	140.6	-516.64	-889.69	-16.62	67.39	-1402.38	-9.384e+04
180	12	-5.468e+04	22.57	0.12	-85.02	0.0	-626.91	-946.84	-1.63	73.74	22.57	-5.468e+04
		-1.938e+05	-206.52	2.43e-03	0.0	140.6	-630.16	-1031.86	-1.63	73.74	-206.52	-1.938e+05
181	1	-4.162e+04	768.43	0.40	-145.57	0.0	-1951.12	-2688.67	-14.73	334.95	768.43	-4.162e+04
		-4.298e+05	-1302.78	3.48e-03	0.0	140.6	-1956.68	-2834.24	-14.73	334.95	-1302.78	-4.298e+05
181	4	-2.455e+04	446.47	0.23	-100.52	0.0	-1145.15	-1566.98	-8.62	182.17	446.47	-2.455e+04
		-2.519e+05	-764.81	1.98e-03	0.0	140.6	-1148.99	-1667.50	-8.62	182.17	-764.81	-2.519e+05
181	5	-1.324e+04	1454.28	0.14	-85.02	0.0	-594.30	-884.27	-18.48	48.33	1454.28	-1.324e+04
		-1.435e+05	-1143.41	5.86e-03	0.0	140.6	-597.55	-969.29	-18.48	48.33	-1143.41	-1.435e+05
181	11	2.588e+04	933.76	0.15	-85.02	0.0	-698.75	-816.27	-16.60	67.31	933.76	2.588e+04
		-9.485e+04	-1399.81	8.37e-04	0.0	140.6	-702.00	-901.29	-16.60	67.31	-1399.81	-9.485e+04
181	12	-5.405e+04	15.62	0.12	-85.02	0.0	-665.30	-959.22	-1.51	73.65	15.62	-5.405e+04
		-1.949e+05	-196.09	2.42e-03	0.0	140.6	-668.54	-1044.24	-1.51	73.65	-196.09	-1.949e+05
181	15	-1.276e+04	1247.45	0.14	-85.02	0.0	-578.86	-883.01	-15.20	44.35	1247.45	-1.276e+04
		-1.429e+05	-889.91	4.83e-03	0.0	140.6	-582.11	-968.03	-15.20	44.35	-889.91	-1.429e+05
181	16	-1.535e+04	-304.86	0.14	-85.02	0.0	-784.33	-892.03	-2.86	92.78	-304.86	-1.535e+04
		-1.467e+05	-706.58	-1.64e-03	0.0	140.6	-787.58	-977.06	-2.86	92.78	-706.58	-1.467e+05
182	1	-1.757e+04	-1.348e+04	-3.90e-03	-235.15	0.0	-477.28	1994.28	267.70	-4042.36	-1.868e+04	-5.403e+04
		-5.403e+04	-1.868e+04	3.27e-04	0.0	19.4	-486.16	1759.13	267.70	-4042.36	-1.348e+04	-1.757e+04
182	2	-7620.97	-1.144e+04	-2.79e-03	-141.04	0.0	-368.79	1301.30	211.60	-3094.11	-1.555e+04	-3.153e+04
		-3.153e+04	-1.555e+04	2.98e-04	0.0	19.4	-374.12	1160.26	211.60	-3094.11	-1.144e+04	-7620.97
182	3	-2.035e+04	-9801.03	-3.40e-03	-235.15	0.0	-388.83	1868.81	228.33	-3733.45	-1.424e+04	-5.437e+04
		-5.437e+04	-1.424e+04	2.03e-04	0.0	19.4	-397.71	1633.66	228.33	-3733.45	-9801.03	-2.035e+04
182	4	-1.040e+04	-7755.90	-2.29e-03	-141.04	0.0	-280.42	1175.86	172.16	-2785.74	-1.110e+04	-3.188e+04
		-3.188e+04	-1.110e+04	1.73e-04	0.0	19.4	-285.75	1034.82	172.16	-2785.74	-7755.90	-1.040e+04
182	5	-1.987e+04	-1.510e+04	-1.82e-03	-163.56	0.0	-198.57	1242.68	617.97	-1.627e+04	-2.711e+04	-4.243e+04
		-4.243e+04	-2.711e+04	-8.81e-04	0.0	19.4	-204.75	1079.12	617.97	-1.627e+04	-1.510e+04	-1.987e+04
182	6	-1.172e+04	1.366e+04	-2.27e-03	-163.56	0.0	-231.72	1186.84	-344.86	1.121e+04	1.366e+04	-3.319e+04
		-3.319e+04	6962.02	1.04e-03	0.0	19.4	-237.90	1023.28	-344.86	1.121e+04	6962.02	-1.172e+04
182	9	-8.881e+04	-6315.21	1.42e-03	-163.56	0.0	-584.66	1716.16	181.40	-2699.26	-9839.38	-1.206e+05
		-1.206e+05	-9839.38	1.16e-05	0.0	19.4	-590.84	1552.60	181.40	-2699.26	-6315.21	-8.881e+04
182	10	5.731e+04	-2502.00	-5.51e-03	-163.56	0.0	157.56	712.72	98.73	-2411.47	-4420.08	4.505e+04
		4.505e+04	-4420.08	1.17e-04	0.0	19.4	151.39	549.16	98.73	-2411.47	-2502.00	5.731e+04
182	11	-9.777e+04	-5285.62	1.84e-03	-163.56	0.0	-551.78	1776.97	137.55	-2629.69	-7957.88	-1.307e+05
		-1.307e+05	-7957.88	-1.20e-04	0.0	19.4	-557.96	1613.41	137.55	-2629.69	-5285.62	-9.777e+04

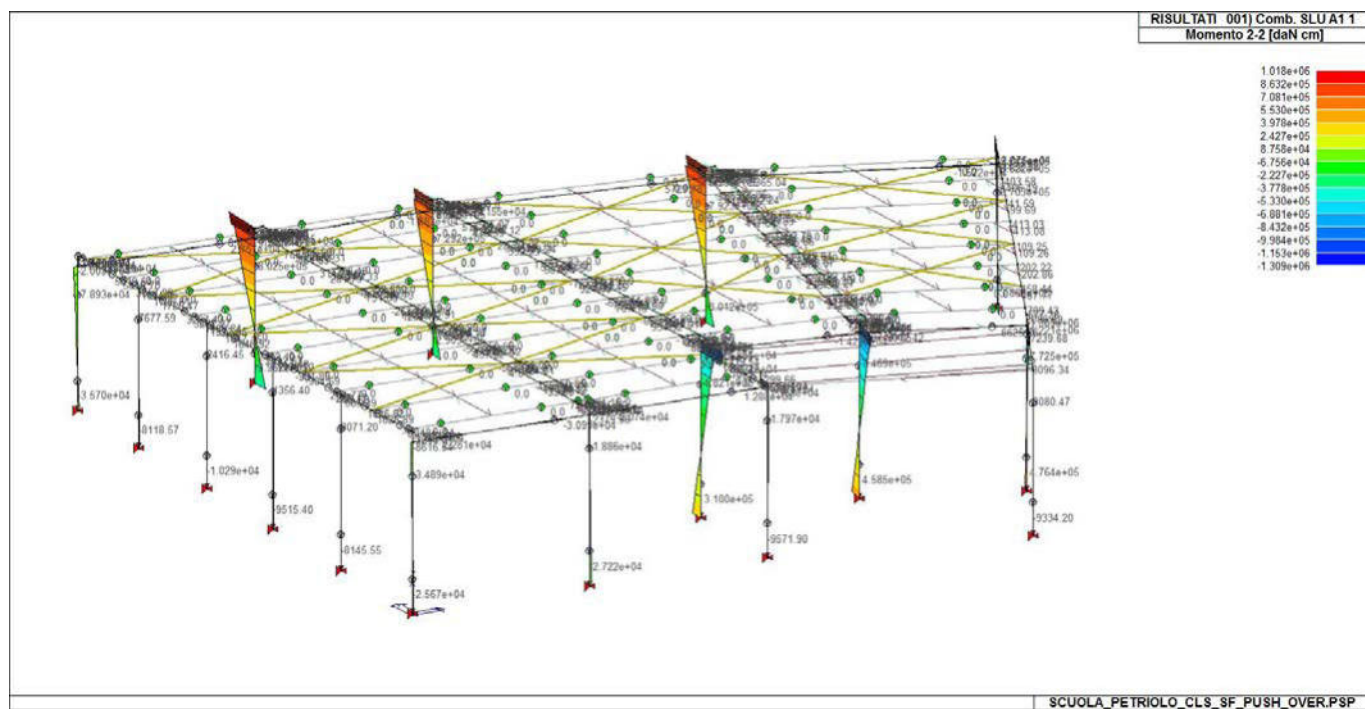
182	12	6.630e+04	-3299.18	-5.93e-03	-163.56	0.0	124.19	651.68	139.43	-2446.22	-6008.05	5.522e+04
		5.522e+04	-6008.05	2.50e-04	0.0	19.4	118.01	488.12	139.43	-2446.22	-3299.18	6.630e+04
183	1	4.414e+04	2412.10	-6.57e-03	-1701.60	0.0	-93.47	1266.82	-5.44	237.76	2412.10	-2.215e+04
		-2.215e+04	1646.92	-1.42e-04	0.0	140.6	-158.43	-434.79	-5.44	237.76	1646.92	3.633e+04
183	4	2.609e+04	1372.32	-3.89e-03	-1020.61	0.0	-56.45	756.99	-3.02	113.09	1372.32	-1.338e+04
		-1.338e+04	947.39	-9.77e-05	0.0	140.6	-95.41	-263.62	-3.02	113.09	947.39	2.130e+04
183	5	2.640e+04	8365.76	-3.99e-03	-1183.57	0.0	381.88	851.70	-32.09	-2010.53	8365.76	-1.660e+04
		-1.660e+04	3854.48	-1.97e-03	0.0	140.6	336.69	-331.87	-32.09	-2010.53	3854.48	1.994e+04
183	6	2.621e+04	-3287.86	-3.75e-03	-1183.57	0.0	-482.71	807.35	10.44	2373.38	-4755.98	-1.249e+04
		-1.249e+04	-4755.98	2.24e-03	0.0	140.6	-527.90	-376.23	10.44	2373.38	-3287.86	1.781e+04
183	11	3.906e+04	684.87	-6.94e-03	-1183.57	0.0	248.04	1242.76	-2.34	-108.22	684.87	-5.246e+04
		-5.246e+04	356.56	-3.11e-04	0.0	140.6	202.86	59.19	-2.34	-108.22	356.56	3.906e+04
184	1	4.750e+04	284.77	-7.87e-03	-1701.60	0.0	-153.92	1629.65	-8.46	-1045.43	284.77	-6.216e+04
		-6.216e+04	-904.69	-8.80e-04	0.0	140.6	-218.88	-71.95	-8.46	-1045.43	-904.69	4.734e+04
184	4	2.794e+04	115.78	-4.65e-03	-1020.61	0.0	-91.14	970.79	-4.67	-675.74	115.78	-3.695e+04
		-3.695e+04	-540.59	-5.19e-04	0.0	140.6	-130.10	-49.83	-4.67	-675.74	-540.59	2.779e+04
184	5	2.731e+04	1953.60	-4.79e-03	-1183.57	0.0	185.74	1060.39	25.99	-6377.17	-1700.00	-3.944e+04
		-3.944e+04	-1700.00	-7.26e-03	0.0	140.6	140.55	-123.18	25.99	-6377.17	1953.60	2.644e+04
184	6	2.680e+04	3345.38	-4.60e-03	-1183.57	0.0	-389.41	1020.20	-57.32	5325.98	3345.38	-3.500e+04
		-3.500e+04	-4712.49	6.82e-03	0.0	140.6	-434.60	-163.37	-57.32	5325.98	-4712.49	2.523e+04
184	11	3.842e+04	1735.31	-7.56e-03	-1183.57	0.0	44.72	1371.75	-14.49	-698.02	1735.31	-7.123e+04
		-7.123e+04	-301.35	-6.91e-04	0.0	140.6	-0.46	188.18	-14.49	-698.02	-301.35	3.842e+04
184	14	2.670e+04	3670.31	-4.57e-03	-1183.57	0.0	-370.91	1015.30	-59.92	5565.91	3670.31	-3.450e+04
		-3.450e+04	-4753.33	7.31e-03	0.0	140.6	-416.10	-168.27	-59.92	5565.91	-4753.33	2.504e+04
184	16	2.667e+04	3518.78	-4.56e-03	-1183.57	0.0	-366.31	1013.90	-60.06	5633.69	3518.78	-3.435e+04
		-3.435e+04	-4925.33	7.43e-03	0.0	140.6	-411.49	-169.67	-60.06	5633.69	-4925.33	2.499e+04
185	1	7.256e+04	1626.89	-0.02	-1701.60	0.0	-322.61	1474.95	107.47	-4013.72	-1.348e+04	-1.730e+04
		-1.730e+04	-1.348e+04	-5.34e-04	0.0	140.6	-387.57	-226.65	107.47	-4013.72	1626.89	7.044e+04
185	3	6.518e+04	1511.81	-0.01	-1701.60	0.0	-268.32	1438.16	80.47	-3699.95	-9800.81	-2.016e+04
		-2.016e+04	-9800.81	-5.81e-04	0.0	140.6	-333.28	-263.44	80.47	-3699.95	1511.81	6.242e+04
185	4	4.265e+04	1120.81	-9.58e-03	-1020.61	0.0	-189.37	876.54	63.14	-2768.73	-7755.43	-1.024e+04
		-1.024e+04	-7755.43	-3.79e-04	0.0	140.6	-228.34	-144.08	63.14	-2768.73	1120.81	4.124e+04
185	7	3.969e+04	6264.78	-8.84e-03	-1183.57	0.0	-58.46	1004.28	152.65	-1.633e+04	-1.520e+04	-2.015e+04
		-2.015e+04	-1.520e+04	-8.93e-03	0.0	140.6	-103.65	-179.29	152.65	-1.633e+04	6264.78	3.784e+04
185	8	4.171e+04	7053.90	-9.50e-03	-1183.57	0.0	-248.96	944.81	-90.15	1.133e+04	7053.90	-1.129e+04
		-1.129e+04	-5620.24	8.36e-03	0.0	140.6	-294.14	-238.76	-90.15	1.133e+04	-5620.24	3.834e+04
185	11	3.394e+04	1502.39	-7.69e-03	-1183.57	0.0	-235.84	1528.03	48.32	-2465.86	-5290.83	-9.769e+04
		-9.769e+04	-5290.83	-1.90e-03	0.0	140.6	-281.03	344.45	48.32	-2465.86	1502.39	3.394e+04
185	12	7.683e+04	35.35	-0.01	-1183.57	0.0	-67.85	420.11	23.68	-2557.71	-3293.92	6.638e+04
		4.225e+04	-3293.92	1.14e-03	0.0	140.6	-113.03	-763.46	23.68	-2557.71	35.35	4.225e+04
185	17	3.437e+04	2370.72	-7.77e-03	-1183.57	0.0	-275.13	1453.88	63.88	-2570.93	-6609.54	-8.683e+04
		-8.683e+04	-6609.54	-1.06e-03	0.0	140.6	-320.32	270.31	63.88	-2570.93	2370.72	3.437e+04
185	18	6.997e+04	-295.54	-0.01	-1183.57	0.0	-27.50	494.58	13.81	-2492.32	-2237.19	5.548e+04
		4.181e+04	-2237.19	2.01e-04	0.0	140.6	-72.68	-688.99	13.81	-2492.32	-295.54	4.181e+04
186	1	-2.226e+04	2412.67	-2.34e-03	-440.26	0.0	75.12	2249.32	37.26	226.16	1057.48	-9.607e+04
		-9.607e+04	1057.48	-2.12e-04	0.0	36.4	58.36	1809.06	37.26	226.16	2412.67	-2.226e+04
186	3	-2.154e+04	2032.44	-2.14e-03	-440.26	0.0	42.62	2033.03	30.90	234.76	908.54	-8.748e+04
		-8.748e+04	908.54	-1.61e-04	0.0	36.4	25.86	1592.78	30.90	234.76	2032.44	-2.154e+04
186	4	-1.344e+04	1372.65	-1.37e-03	-264.06	0.0	41.99	1317.40	21.57	106.11	587.90	-5.656e+04
		-5.656e+04	587.90	-1.30e-04	0.0	36.4	31.93	1053.33	21.57	106.11	1372.65	-1.344e+04
186	5	-1.664e+04	8365.89	-1.23e-03	-306.23	0.0	425.17	1290.83	117.68	-2019.55	4085.59	-5.802e+04
		-5.802e+04	4085.59	-1.22e-03	0.0	36.4	413.51	984.61	117.68	-2019.55	8365.89	-1.664e+04
186	6	-1.253e+04	-2272.31	-1.47e-03	-306.23	0.0	-410.01	1246.67	-68.27	2367.71	-2272.31	-5.231e+04
		-5.231e+04	-4755.46	1.01e-03	0.0	36.4	-421.67	940.44	-68.27	2367.71	-4755.46	-1.253e+04
186	11	-5.251e+04	685.88	8.85e-04	-306.23	0.0	78.91	1692.56	12.80	-133.59	220.24	-1.085e+05
		-1.085e+05	220.24	-1.39e-04	0.0	36.4	67.25	1386.34	12.80	-133.59	685.88	-5.251e+04
186	12	2.341e+04	2634.72	-3.37e-03	-306.23	0.0	-77.26	844.29	31.86	453.96	1475.82	-1735.34
		-1735.34	1475.82	-4.47e-05	0.0	36.4	-88.92	538.06	31.86	453.96	2634.72	2.341e+04
187	1	-2.344e+04	3096.34	0.01	-3239.90	0.0	-354.97	-27.17	-40.07	-3082.41	3096.34	-2.344e+04
		-4.417e+05	-7239.68	4.11e-03	0.0	258.0	-354.96	-3267.07	-40.07	-3082.41	-7239.68	4.417e+05
187	2	-2.113e+04	2374.58	8.79e-03	-2107.56	0.0	-278.18	13.80	-41.28	-2704.75	2374.58	-2.113e+04
		-2.858e+05	-8273.52	2.85e-03	0.0	258.0	-278.18	-2093.77	-41.28	-2704.75	-8273.52	-2.858e+05
187	4	-1.661e+04	1830.75	6.69e-03	-2158.17	0.0	-223.93	169.24	-26.23	-2421.88	1830.75	-1.839e+04
		-2.493e+05	-4937.02	2.36e-03	0.0	258.0	-223.93	-1988.93	-26.23	-2421.88	-4937.02	-2.493e+05
187	7	-4.499e+04	2.456e+04	6.24e-03	-2280.98	0.0	-457.62	651.80	130.09	8645.10	-8998.88	-6.988e+04
		-1.917e+05	-8998.88	-0.01	0.0	258.0	-457.62	-1629.18	130.09	8645.10	2.456e+04	-1.917e+05
187	8	4.490e+04	1.173e+04	6.06e-03	-2280.98	0.0	118.75	-254.41	-148.71	-1.275e+04	1.173e+04	4.490e+04
		-3.107e+05	-2.663e+04	0.02	0.0	258.0	118.75	-2535.39	-148.71	-1.275e+04	-2.663e+04	-3.107e+05
187	17	-1.662e+04	4449.05	5.98e-03	-2280.98	0.0	-1151.88	1845.78	-47.12	-8860.47	4449.05	-2.129e+05
		-2.129e+05	-7707.11	6.21e-03	0.0	258.0	-1151.87	-435.20	-47.12	-8860.47	-7707.11	-2.665e+04
187	18	1.872e+05	5826.32	8.38e-03	-2280.98	0.0	807.86	-1442.63	28.79	4840.47	-1601.03	1.872e+05
		-4.749e+05	-1601.03	-1.90e-03	0.0	258.0	807.87	-3723.61	28.79	4840.47	5826.32	-4.749e+05
197	1	-3.159e+05	533.87	0.04	-26.38	0.0	-1819.26	-2906.53	34.59	2029.06	-340.29	-3.159e+05
		-3.897e+05	-340.29	-2.10e-05	0.0	25.3	-1819.19	-2932.91	34.59	2029.06	533.87	-3.897e+05
197	2	-2.745e+05	635.42	0.03	-21.28	0.0	-1540.80	-2491.44	34.42	1758.17	-234.39	-2.745e+05
		-3.378e+05	-234.39	-1.29e-04	0.0	25.3	-1540.74	-2512.73	34.42	1758.17	635.42	-3.378e+05

197	7-9.184e+04	3140.57	0.01	-15.34	0.0	-752.14	-977.92	-367.59	474.58	3140.57-9.184e+04
	-1.167e+05	-6149.05	1.87e-03	0.0	25.3	-752.10	-993.26	-367.59	474.58	-6149.05-1.167e+05
197	8-1.092e+05	5803.61	0.01	-15.34	0.0	-510.55	-955.16	359.22	872.59	-3274.42-1.092e+05
	-1.335e+05	-3274.42	-1.56e-03	0.0	25.3	-510.51	-970.49	359.22	872.59	5803.61-1.335e+05
197	11-4.200e+04	1321.56	0.02	-15.34	0.0	-414.96	-895.01	82.75	323.21	-769.63-4.200e+04
	-6.481e+04	-769.63	-2.21e-04	0.0	25.3	-414.92	-910.35	82.75	323.21	1321.56-6.481e+04
197	12-1.591e+05	504.71	8.66e-03	-15.34	0.0	-849.17	-1039.55	-77.76	1013.19	504.71-1.591e+05
	-1.856e+05	-1460.54	4.77e-04	0.0	25.3	-849.13	-1054.89	-77.76	1013.19	-1460.54-1.856e+05
197	17-3.698e+04	1848.75	0.02	-15.34	0.0	-540.70	-894.22	119.05	290.83	-1159.97-3.698e+04
	-5.977e+04	-1159.97	-1.54e-04	0.0	25.3	-540.66	-909.55	119.05	290.83	1848.75-5.977e+04
197	18-1.642e+05	935.47	8.19e-03	-15.34	0.0	-727.11	-1040.28	-117.16	1047.66	935.47-1.642e+05
	-1.907e+05	-2025.31	4.20e-04	0.0	25.3	-727.07	-1055.62	-117.16	1047.66	-2025.31-1.907e+05
198	1 4.225e+04	577.86	0.25	-170.84	0.0	-1574.04	-2457.12	-10.95	-245.26	577.86 4.225e+04
	-3.158e+05	-965.84	2.36e-03	0.0	141.0	-1581.82	-2627.96	-10.95	-245.26	-965.84-3.158e+05
198	3 3.270e+04	614.96	0.19	-145.38	0.0	-1143.80	-1763.56	-10.50	-157.83	614.96 3.270e+04
	-2.259e+05	-865.97	2.34e-03	0.0	141.0	-1150.42	-1908.95	-10.50	-157.83	-865.97-2.259e+05
198	4 2.381e+04	306.77	0.15	-114.10	0.0	-925.79	-1423.28	-5.87	-136.37	306.77 2.381e+04
	-1.847e+05	-520.45	1.26e-03	0.0	141.0	-930.98	-1537.39	-5.87	-136.37	-520.45-1.847e+05
198	5 2.347e+04	1135.47	0.09	-90.69	0.0	-315.83	-772.61	-11.88	-153.44	1135.47 2.347e+04
	-9.176e+04	-540.13	5.01e-03	0.0	141.0	-319.96	-863.30	-11.88	-153.44	-540.13-9.176e+04
198	6 9042.27	-327.84	0.08	-90.69	0.0	-760.15	-792.06	-0.91	50.73	-327.84 9042.27
	-1.089e+05	-456.05	-1.91e-03	0.0	141.0	-764.28	-882.75	-0.91	50.73	-456.05-1.089e+05
198	7 2.328e+04	1139.30	0.09	-90.69	0.0	-325.53	-772.84	-11.91	-151.84	1139.30 2.328e+04
	-9.199e+04	-540.32	4.81e-03	0.0	141.0	-329.66	-863.53	-11.91	-151.84	-540.32-9.199e+04
198	12-2.675e+04	568.07	0.07	-90.69	0.0	-540.01	-893.05	-8.80	-135.55	568.07-2.675e+04
	-1.590e+05	-672.74	2.45e-03	0.0	141.0	-544.14	-983.74	-8.80	-135.55	-672.74-1.590e+05
198	17 6.287e+04	310.35	0.10	-90.69	0.0	-616.64	-661.66	-5.61	53.48	310.35 6.287e+04
	-3.671e+04	-481.31	1.85e-03	0.0	141.0	-620.77	-752.35	-5.61	53.48	-481.31-3.671e+04
198	18-3.041e+04	525.51	0.07	-90.69	0.0	-445.72	-903.43	-7.44	-157.14	525.51-3.041e+04
	-1.641e+05	-523.68	1.19e-03	0.0	141.0	-449.85	-994.12	-7.44	-157.14	-523.68-1.641e+05
199	1 5.683e+04	2.770e+04	-0.01	-4457.25	0.0	-50.81	2112.98	-131.53	-4.335e+04	2.770e+04-1.198e+05
	-1.607e+05	-1.883e+04	0.02	0.0	353.8	-50.81	-2344.27	-131.53	-4.335e+04	-1.883e+04-1.607e+05
199	2 3.447e+04	2.360e+04	-8.12e-03	-2702.65	0.0	-9.32	1278.22	-114.58	-3.744e+04	2.360e+04-7.211e+04
	-9.797e+04	-1.693e+04	0.02	0.0	353.8	-9.32	-1424.43	-114.58	-3.744e+04	-1.693e+04-9.797e+04
199	3 5.687e+04	2.043e+04	-0.01	-4457.25	0.0	-86.83	2117.51	-94.51	-3.128e+04	2.043e+04-1.206e+05
	-1.599e+05	-1.300e+04	0.01	0.0	353.8	-86.83	-2339.74	-94.51	-3.128e+04	-1.300e+04-1.599e+05
199	12 3.922e+04	2.273e+04	-9.48e-03	-3113.00	0.0	-145.58	1456.88	-117.18	-1.410e+04	2.273e+04-8.086e+04
	-1.161e+05	-1.872e+04	0.02	0.0	353.8	-145.58	-1656.12	-117.18	-1.410e+04	-1.872e+04-1.161e+05
199	13 5.781e+04	3098.64	-0.01	-3113.00	0.0	-356.54	2054.34	-6.58	-1.470e+04	3098.64-1.816e+05
	-1.816e+05	769.58	3.53e-03	0.0	353.8	-356.54	-1058.66	-6.58	-1.470e+04	769.58 -5452.13
199	14 5.894e+04	1.643e+04	-0.01	-3113.00	0.0	111.00	909.54	-79.99	-1.350e+04	1.643e+04 1.216e+04
	-2.167e+05	-1.186e+04	0.01	0.0	353.8	111.00	-2203.46	-79.99	-1.350e+04	-1.186e+04-2.167e+05
199	16 5.946e+04	1.593e+04	-0.01	-3113.00	0.0	-76.54	901.10	-76.91	-1.350e+04	1.593e+04 1.362e+04
	-2.182e+05	-1.127e+04	0.01	0.0	353.8	-76.54	-2211.90	-76.91	-1.350e+04	-1.127e+04-2.182e+05
200	1 1.545e+05	5729.78	-0.10	-6562.57	0.0	-125.03	3225.56	33.18	4803.32	-1.155e+04-2.582e+05
	-2.872e+05	-1.155e+04	5.10e-03	0.0	520.8	-125.03	-3337.01	33.18	4803.32	5729.78-2.872e+05
200	2 9.555e+04	4454.84	-0.06	-3979.21	0.0	-27.03	1958.21	26.57	3202.86	-9384.38-1.553e+05
	-1.717e+05	-9384.38	3.26e-03	0.0	520.8	-27.03	-2021.00	26.57	3202.86	4454.84-1.717e+05
200	3 1.525e+05	4721.78	-0.10	-6562.57	0.0	-196.00	3223.74	26.46	4229.44	-9061.99-2.598e+05
	-2.897e+05	-9061.99	4.63e-03	0.0	520.8	-196.00	-3338.82	26.46	4229.44	4721.78-2.897e+05
200	5 1.104e+05	7065.05	-0.07	-4583.38	0.0	-727.98	2555.31	30.40	1969.71	-8767.54-2.606e+05
	-2.606e+05	-8767.54	1.01e-03	0.0	520.8	-727.98	-2028.07	30.40	1969.71	7065.05-1.233e+05
200	13 1.107e+05	6582.60	-0.07	-4583.38	0.0	-738.11	2564.64	28.93	1743.98	-8483.32-2.630e+05
	-2.630e+05	-8483.32	-1.55e-03	0.0	520.8	-738.11	-2018.74	28.93	1743.98	6582.60-1.208e+05
200	14 1.109e+05	-1050.92	-0.07	-4583.38	0.0	304.86	1936.70	0.53	3158.38	-1327.67-1.019e+05
	-2.868e+05	-1327.67	6.75e-03	0.0	520.8	304.86	-2646.68	0.53	3158.38	-1050.92-2.868e+05
200	16 1.111e+05	-824.43	-0.07	-4583.38	0.0	-45.65	1933.20	0.95	3302.12	-1320.65-1.010e+05
	-2.877e+05	-1320.65	7.36e-03	0.0	520.8	-45.65	-2650.18	0.95	3302.12	-824.43-2.877e+05
200	18 1.053e+05	6206.47	-0.07	-4583.38	0.0	-418.51	2294.73	33.15	1712.16	-1.106e+04-1.938e+05
	-1.938e+05	-1.106e+04	-3.43e-03	0.0	520.8	-418.51	-2288.65	33.15	1712.16	6206.47-1.923e+05
201	1 1.680e+05	5365.04	-0.12	-6606.62	0.0	-185.71	3463.38	-39.25	3.514e+04	5365.04-3.070e+05
	-3.070e+05	-1.522e+04	4.51e-03	0.0	524.3	-185.71	-3143.24	-39.25	3.514e+04	-1.522e+04-2.231e+05
201	2 1.027e+05	4243.42	-0.07	-4005.92	0.0	-74.69	2091.24	-27.75	1.824e+04	4243.42-1.830e+05
	-1.830e+05	-1.031e+04	3.24e-03	0.0	524.3	-74.69	-1914.68	-27.75	1.824e+04	-1.031e+04-1.367e+05
201	3 1.667e+05	4307.61	-0.12	-6606.62	0.0	-246.91	3470.93	-34.53	3.528e+04	4307.61-3.102e+05
	-3.102e+05	-1.380e+04	3.85e-03	0.0	524.3	-246.91	-3135.69	-34.53	3.528e+04	-1.380e+04-2.223e+05
201	8 1.156e+05	7739.23	-0.08	-4614.15	0.0	-361.73	2099.72	-46.77	2.382e+04	7739.23-1.346e+05
	-2.433e+05	-1.678e+04	4.90e-03	0.0	524.3	-361.73	-2514.43	-46.77	2.382e+04	-1.678e+04-2.433e+05
201	13 1.289e+05	-1378.91	-0.09	-4614.15	0.0	-427.55	2765.62	2.03	2.283e+04	-2445.75-3.049e+05
	-3.049e+05	-2445.75	-2.82e-03	0.0	524.3	-427.55	-1848.53	2.03	2.283e+04	-1378.91-6.446e+04
201	14 1.157e+05	6785.60	-0.08	-4614.15	0.0	-33.91	2091.17	-42.42	2.400e+04	6785.60-1.325e+05
	-2.457e+05	-1.546e+04	4.84e-03	0.0	524.3	-33.91	-2522.98	-42.42	2.400e+04	-1.546e+04-2.457e+05
201	15 1.290e+05	-140.74	-0.09	-4614.15	0.0	-72.99	2768.02	6.24	2.265e+04	-3411.15-3.056e+05
	-3.056e+05	-3411.15	-4.54e-03	0.0	524.3	-72.99	-1846.13	6.24	2.265e+04	-140.74-6.389e+04
202	1 251.29	950.68	2.89e-03	-62.90	0.0	-246.56	29.88	59.44	-2262.89	950.68 -25.41
	-25.41	-951.55	4.71e-04	0.0	32.0	-246.56	-33.02	59.44	-2262.89	-951.55 -25.41
202	2 194.42	527.58	2.41e-03	-48.38	0.0	-174.97	22.13	32.99	-2011.33	527.58 32.81
	-33.26	-528.25	3.63e-04	0.0	32.0	-174.97	-26.26	32.99	-2011.33	-528.25 -33.26

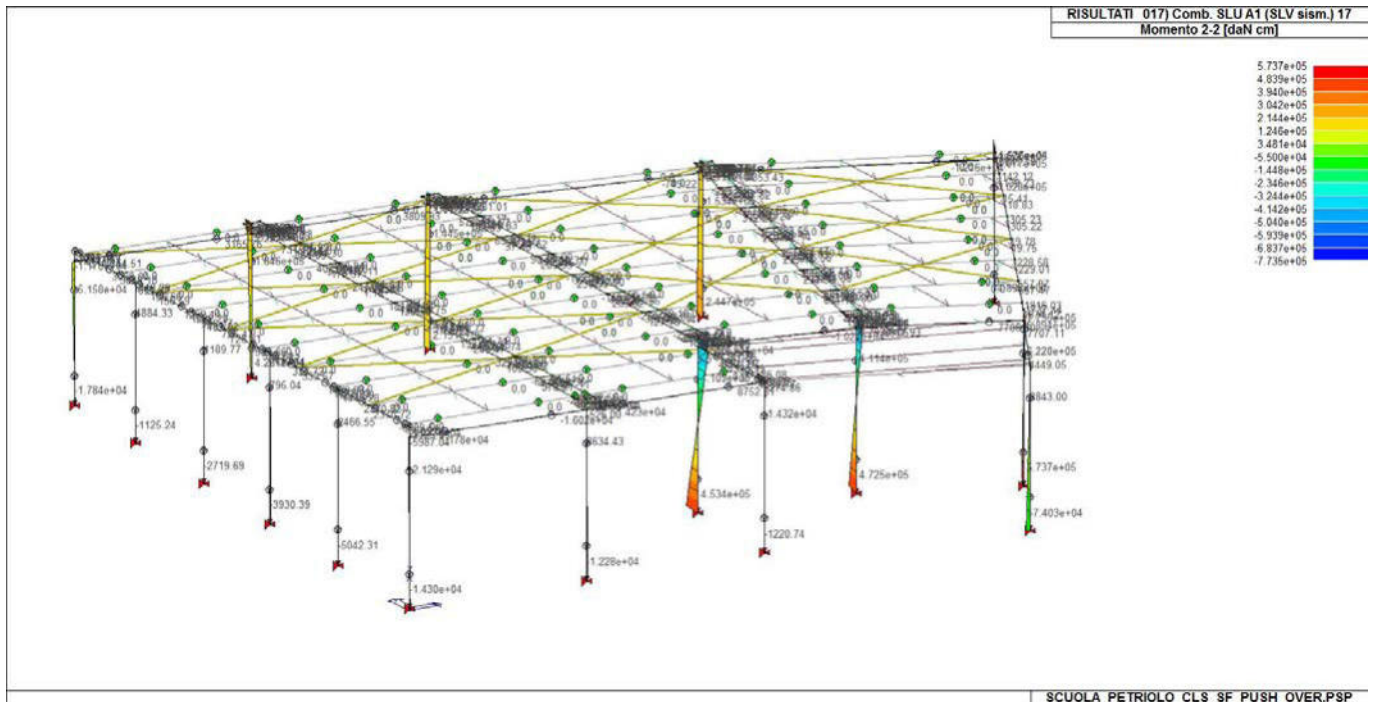
202	3	251.34	967.00	2.09e-03	-62.90	0.0	-216.90	31.13	60.46	-1477.58	-967.84	4.86
		-5.38	-967.84	3.75e-04	0.0	32.0	-216.90	-31.77	60.46	-1477.58	967.00	-5.38
202	4	193.36	548.31	1.61e-03	-48.38	0.0	-145.28	23.39	34.29	-1226.11	-548.97	12.70
		-13.05	-548.97	2.67e-04	0.0	32.0	-145.28	-25.00	34.29	-1226.11	548.31	-13.05
202	5	198.18	2165.91	6.63e-03	-48.38	0.0	-319.80	28.32	135.74	-274.76	-2177.87	-66.61
		-66.61	-2177.87	4.31e-04	0.0	32.0	-319.80	-20.07	135.74	-274.76	2165.91	65.43
202	13	197.00	1933.52	6.76e-03	-48.38	0.0	-320.07	27.71	121.23	-203.21	-1945.72	-56.85
		-56.85	-1945.72	3.09e-04	0.0	32.0	-320.07	-20.67	121.23	-203.21	1933.52	55.75
202	14	196.00	675.58	-5.05e-03	-48.38	0.0	33.27	21.60	-41.81	-666.76	675.58	41.74
		-41.13	-662.26	8.38e-05	0.0	32.0	33.27	-26.78	-41.81	-666.76	-662.26	-41.13
203	1	258.28	29.59	4.52e-03	-62.90	0.0	-171.40	25.87	1.88	-1811.54	-30.54	88.68
		-89.76	-30.54	1.71e-04	0.0	32.0	-171.61	-37.03	1.88	-1811.54	29.59	-89.76
203	3	253.91	150.82	3.15e-03	-62.90	0.0	-148.60	28.08	9.54	-1175.15	-154.37	53.41
		-54.41	-154.37	1.69e-04	0.0	32.0	-148.81	-34.82	9.54	-1175.15	150.82	-54.41
203	4	196.29	7.16	2.50e-03	-48.38	0.0	-99.78	21.14	0.48	-979.76	-8.27	48.51
		-49.16	-8.27	9.59e-05	0.0	32.0	-99.94	-27.24	0.48	-979.76	7.16	-49.16
203	5	193.02	1303.53	6.81e-03	-48.38	0.0	-103.74	26.02	82.25	-146.91	-1328.40	-30.45
		-30.45	-1328.40	1.38e-04	0.0	32.0	-103.90	-22.36	82.25	-146.91	1303.53	28.13
203	6	198.19	999.76	-4.49e-03	-48.38	0.0	-133.47	20.63	-61.94	-499.87	999.76	57.60
		-56.52	-982.32	9.58e-05	0.0	32.0	-133.63	-27.76	-61.94	-499.87	-982.32	-56.52
203	8	197.94	958.90	-4.65e-03	-48.38	0.0	-133.52	20.73	-59.44	-457.17	958.90	55.91
		-54.92	-943.21	1.27e-04	0.0	32.0	-133.68	-27.66	-59.44	-457.17	-943.21	-54.92
203	17	193.08	574.70	1.07e-03	-48.38	0.0	-75.37	24.38	36.00	-431.73	-577.19	-3.44
		-3.44	-577.19	1.25e-04	0.0	32.0	-75.53	-24.01	36.00	-431.73	574.70	2.51
204	1	268.12	801.14	5.62e-03	-62.90	0.0	-115.62	23.41	-49.75	-1078.52	801.14	128.68
		-128.48	-790.96	-7.71e-06	0.0	32.0	-116.04	-39.49	-49.75	-1078.52	-790.96	-128.48
204	4	199.51	476.84	3.09e-03	-48.38	0.0	-67.02	19.72	-29.63	-581.92	476.84	71.56
		-71.45	-471.35	-5.84e-06	0.0	32.0	-67.34	-28.66	-29.63	-581.92	-471.35	-71.45
204	7	192.87	305.95	7.04e-03	-48.38	0.0	74.17	23.36	19.79	-1.38	-327.34	12.57
		-13.92	-327.34	-1.92e-04	0.0	32.0	73.85	-25.02	19.79	-1.38	305.95	-13.92
204	8	196.58	744.80	-4.35e-03	-48.38	0.0	-217.19	21.41	-45.96	-325.85	744.80	45.02
		-44.03	-725.94	3.13e-04	0.0	32.0	-217.51	-26.97	-45.96	-325.85	-725.94	-44.03
204	12	198.01	1018.89	1.26e-03	-48.38	0.0	-79.54	20.56	-63.68	-248.75	1018.89	58.40
		-57.96	-1019.05	3.67e-04	0.0	32.0	-79.86	-27.83	-63.68	-248.75	-1019.05	-57.96
205	1	275.26	1496.61	6.12e-03	-62.90	0.0	-181.59	21.66	-93.47	-300.05	1496.61	156.84
		-156.39	-1494.74	-5.16e-05	0.0	32.0	-182.21	-41.24	-93.47	-300.05	-1494.74	-156.39
205	4	203.55	884.53	3.36e-03	-48.38	0.0	-106.63	18.70	-55.26	-160.14	884.53	88.01
		-87.75	-883.72	-2.91e-05	0.0	32.0	-107.11	-29.68	-55.26	-160.14	-883.72	-87.75
205	7	194.20	22.53	6.96e-03	-48.38	0.0	219.41	22.19	-1.74	221.69	22.53	31.74
		-32.40	-33.28	-4.68e-04	0.0	32.0	218.93	-26.20	-1.74	221.69	-33.28	-32.40
205	8	196.73	943.44	-4.16e-03	-48.38	0.0	-377.11	21.29	-58.70	-233.25	943.44	46.80
		-45.98	-935.01	5.56e-04	0.0	32.0	-377.59	-27.09	-58.70	-233.25	-935.01	-45.98
205	12	199.52	1330.10	1.39e-03	-48.38	0.0	-99.16	19.88	-83.11	-110.41	1330.10	69.36
		-68.62	-1329.42	3.23e-04	0.0	32.0	-99.64	-28.50	-83.11	-110.41	-1329.42	-68.62
206	1	278.41	1647.28	6.04e-03	-62.90	0.0	-77.38	21.23	-103.50	502.85	1647.28	164.38
		-162.67	-1664.91	2.30e-04	0.0	32.0	-78.21	-41.67	-103.50	502.85	-1664.91	-162.67
206	4	204.88	965.54	3.31e-03	-48.38	0.0	-44.97	18.46	-60.66	275.76	965.54	92.18
		-91.17	-975.71	1.38e-04	0.0	32.0	-45.61	-29.92	-60.66	275.76	-975.71	-91.17
206	7	206.12	1492.28	6.70e-03	-48.38	0.0	189.11	18.22	-93.21	503.20	1492.28	96.32
		-94.77	-1490.66	-6.94e-04	0.0	32.0	188.47	-30.16	-93.21	503.20	-1490.66	-94.77
206	8	193.46	279.17	-4.01e-03	-48.38	0.0	-297.09	24.83	17.71	-197.23	-287.59	-10.30
		-10.30	-287.59	9.53e-04	0.0	32.0	-297.73	-23.55	17.71	-197.23	279.17	10.13
206	13	206.20	1639.75	6.38e-03	-48.38	0.0	144.04	18.22	-102.42	560.28	1639.75	96.46
		-94.78	-1637.81	-7.82e-04	0.0	32.0	143.40	-30.17	-102.42	560.28	-1637.81	-94.78
206	15	207.06	1634.32	6.59e-03	-48.38	0.0	172.22	18.00	-102.10	569.64	1634.32	99.97
		-98.32	-1633.10	-8.05e-04	0.0	32.0	171.58	-30.39	-102.10	569.64	-1633.10	-98.32
207	1	271.26	963.16	5.36e-03	-62.90	0.0	-35.41	22.86	-61.26	1301.08	963.16	138.43
		-136.42	-997.30	6.97e-04	0.0	32.0	-36.45	-40.04	-61.26	1301.08	-997.30	-136.42
207	4	201.12	557.85	2.94e-03	-48.38	0.0	-19.87	19.43	-35.46	709.89	557.85	76.84
		-75.63	-576.91	4.13e-04	0.0	32.0	-20.67	-28.96	-35.46	709.89	-576.91	-75.63
207	7	236.44	3546.70	6.21e-03	-48.38	0.0	62.70	12.94	-222.62	839.50	3546.70	181.32
		-178.88	-3578.08	-8.35e-04	0.0	32.0	61.90	-35.45	-222.62	839.50	-3578.08	-178.88
207	8	209.09	2649.00	-3.87e-03	-48.38	0.0	-195.60	31.18	165.11	-252.63	-2635.32	-112.08
		-112.08	-2635.32	1.39e-03	0.0	32.0	-196.40	-17.21	165.11	-252.63	2649.00	111.45
207	13	234.01	3622.69	5.86e-03	-48.38	0.0	10.37	13.25	-227.36	841.59	3622.69	176.42
		-173.91	-3653.64	-9.07e-04	0.0	32.0	9.56	-35.14	-227.36	841.59	-3653.64	-173.91
208	1	265.74	518.99	4.10e-03	-62.90	0.0	32.72	24.40	-33.92	2037.01	518.99	114.49
		-111.28	-566.81	1.39e-03	0.0	32.0	31.47	-38.50	-33.92	2037.01	-566.81	-111.28
208	4	199.30	291.75	2.25e-03	-48.38	0.0	21.05	20.30	-19.04	1111.80	291.75	63.18
		-61.23	-317.71	8.16e-04	0.0	32.0	20.09	-28.08	-19.04	1111.80	-317.71	-61.23
208	7	249.21	3267.69	5.48e-03	-48.38	0.0	376.29	11.35	-205.38	1307.83	3267.69	206.77
		-204.17	-3305.66	-6.75e-04	0.0	32.0	375.33	-37.03	-205.38	1307.83	-3305.66	-204.17
208	8	222.47	2752.43	-3.68e-03	-48.38	0.0	-402.59	33.53	171.48	-465.93	-2735.83	-149.46
		-149.46	-2735.83	1.68e-03	0.0	32.0	-403.55	-14.85	171.48	-465.93	2752.43	149.56
208	13	245.50	3299.88	5.15e-03	-48.38	0.0	323.83	11.82	-207.40	1244.69	3299.88	199.34
		-196.72	-3338.14	-7.32e-04	0.0	32.0	322.87	-36.57	-207.40	1244.69	-3338.14	-196.72
209	1	219.77	408.21	2.28e-03	-62.90	0.0	-50.74	33.57	-29.83	2171.16	408.21	-66.15
		-66.15	-546.62	2.03e-03	0.0	32.0	-52.20	-29.33	-29.83	2171.16	-546.62	1.74

209	3	228.20	368.14	1.58e-03	-62.90	0.0	-43.22	32.91	-25.62	1438.17	368.14	-46.80
		-46.80	-451.89	1.49e-03	0.0	32.0	-44.67	-29.99	-25.62	1438.17	-451.89	-0.11
209	4	174.88	216.08	1.26e-03	-48.38	0.0	-30.43	25.50	-15.68	1178.16	216.08	-39.68
		-39.68	-285.81	1.19e-03	0.0	32.0	-31.55	-22.88	-15.68	1178.16	-285.81	2.26
209	7	195.48	3155.45	4.27e-03	-48.38	0.0	136.26	16.73	-198.01	1585.97	3155.45	103.55
		-135.28	-3182.53	-3.37e-04	0.0	32.0	135.14	-31.65	-198.01	1585.97	-3182.53	-135.28
209	8	216.59	2714.72	-3.22e-03	-48.38	0.0	-250.30	33.45	169.49	-791.50	-2710.53	-153.61
		-153.61	-2710.53	1.76e-03	0.0	32.0	-251.42	-14.93	169.49	-791.50	2714.72	142.88
210	1	20.15	0.0	-1.38e-03	-5.03	0.0	-89.66	2.52	0.0	-8.84	0.0	0.0
		0.0	0.0	3.38e-04	0.0	32.0	-89.67	-2.52	0.0	-8.84	0.0	0.0
210	3	20.15	0.0	-9.72e-04	-5.03	0.0	-76.69	2.52	0.0	-6.98	0.0	0.0
		0.0	0.0	2.66e-04	0.0	32.0	-76.70	-2.52	0.0	-6.98	0.0	0.0
210	4	15.50	0.0	-8.14e-04	-3.87	0.0	-59.25	1.94	0.0	-5.51	0.0	0.0
		0.0	0.0	2.00e-04	0.0	32.0	-59.25	-1.94	0.0	-5.51	0.0	0.0
210	8	15.50	0.0	-3.18e-03	-3.87	0.0	-26.90	1.94	0.0	-8.72	0.0	0.0
		0.0	0.0	8.55e-04	0.0	32.0	-26.90	-1.94	0.0	-8.72	0.0	0.0
210	11	15.50	0.0	-5.11e-04	-3.87	0.0	-15.78	1.94	0.0	-5.73	0.0	0.0
		0.0	0.0	-3.90e-04	0.0	32.0	-15.78	-1.94	0.0	-5.73	0.0	0.0
210	12	15.50	0.0	-3.49e-04	-3.87	0.0	-82.81	1.94	0.0	-2.34	0.0	0.0
		0.0	0.0	6.76e-04	0.0	32.0	-82.82	-1.94	0.0	-2.34	0.0	0.0
210	13	15.50	0.0	2.16e-03	-3.87	0.0	-81.42	1.94	0.0	-0.19	0.0	0.0
		0.0	0.0	-6.05e-04	0.0	32.0	-81.43	-1.94	0.0	-0.19	0.0	0.0
210	19	15.50	0.0	-4.90e-04	-3.87	0.0	-15.54	1.94	0.0	-5.72	0.0	0.0
		0.0	0.0	-3.41e-04	0.0	32.0	-15.54	-1.94	0.0	-5.72	0.0	0.0
211	1	39.87	-619.80	8.43e-04	-62.90	0.0	-222.68	29.72	-2.00	-1242.86	-619.80	-184.02
		-239.44	-683.75	3.41e-04	0.0	32.0	-222.68	-33.18	-2.00	-1242.86	-683.75	-239.44
211	3	95.71	-398.99	7.39e-04	-62.90	0.0	-190.42	29.90	-4.67	-815.63	-398.99	-131.11
		-180.67	-548.36	2.45e-04	0.0	32.0	-190.42	-33.00	-4.67	-815.63	-548.36	-180.67
211	4	68.56	-337.30	4.97e-04	-48.38	0.0	-132.80	23.03	-2.82	-674.22	-337.30	-106.39
		-143.58	-427.46	1.87e-04	0.0	32.0	-132.80	-25.35	-2.82	-674.22	-427.46	-143.58
211	5	135.52	3068.97	6.34e-03	-48.38	0.0	-299.86	30.85	203.89	-172.03	-3455.64	-179.15
		-179.15	-3455.64	5.07e-04	0.0	32.0	-299.86	-17.53	203.89	-172.03	3068.97	34.01
211	6	146.30	3291.08	-5.48e-03	-48.38	0.0	56.54	15.12	-220.59	-326.38	3291.08	70.66
		-219.53	-3767.92	-3.02e-04	0.0	32.0	56.54	-33.26	-220.59	-326.38	-3767.92	-219.53
211	14	143.25	3121.34	-5.66e-03	-48.38	0.0	57.98	15.62	-210.07	-359.79	3121.34	62.65
		-211.69	-3601.10	-2.01e-04	0.0	32.0	57.98	-32.77	-210.07	-359.79	-3601.10	-211.69
212	1	-72.06	1512.99	-5.97e-03	-62.98	0.0	-144.71	35.69	122.78	4440.62	-2421.15	-396.12
		-396.12	-2421.15	1.32e-03	0.0	32.0	-144.59	-27.29	122.78	4440.62	1512.99	-261.46
212	3	36.97	1510.47	-5.02e-03	-62.98	0.0	-120.73	35.42	114.99	2815.84	-2174.15	-282.15
		-282.15	-2174.15	1.09e-03	0.0	32.0	-120.61	-27.56	114.99	2815.84	1510.47	-156.29
212	4	14.64	890.17	-3.46e-03	-48.45	0.0	-88.65	26.48	72.27	2359.27	-1425.51	-217.04
		-217.04	-1425.51	7.64e-04	0.0	32.0	-88.56	-21.97	72.27	2359.27	890.17	-144.75
212	5	129.28	3875.61	4.68e-03	-48.45	0.0	-170.99	32.67	251.05	1023.46	-4168.71	-223.64
		-223.64	-4168.71	7.82e-04	0.0	32.0	-170.89	-15.77	251.05	1023.46	3875.61	47.13
212	6	128.74	1459.18	-0.01	-48.45	0.0	119.84	20.74	-101.48	649.23	1459.18	-13.42
		-125.08	-1792.62	4.36e-04	0.0	32.0	119.93	-27.71	-101.48	649.23	-1792.62	-125.08
212	13	123.71	3636.59	4.91e-03	-48.45	0.0	-173.10	32.02	236.14	1054.42	-3929.76	-214.90
		-214.90	-3929.76	6.82e-04	0.0	32.0	-173.01	-16.42	236.14	1054.42	3636.59	35.05
212	16	129.49	1076.90	-0.01	-48.45	0.0	75.63	21.75	-77.16	603.26	1076.90	-26.90
		-106.04	-1395.52	5.74e-04	0.0	32.0	75.73	-26.69	-77.16	603.26	-1395.52	-106.04
213	1	152.14	15.21	-0.01	-63.03	0.0	-288.00	63.89	0.67	5613.98	-6.30	-886.07
		-886.07	-6.30	1.36e-03	0.0	32.1	-287.84	0.86	0.67	5613.98	15.21	152.14
213	2	113.45	107.49	-0.01	-48.49	0.0	-209.84	52.25	-6.38	5134.83	107.49	-784.71
		-784.71	-97.00	1.04e-03	0.0	32.1	-209.73	3.77	-6.38	5134.83	-97.00	113.45
213	4	105.26	11.85	-7.45e-03	-48.49	0.0	-169.92	41.72	-0.65	2905.51	11.85	-470.29
		-470.29	-9.07	7.70e-04	0.0	32.1	-169.80	-6.76	-0.65	2905.51	-9.07	90.31
213	5	158.09	1715.09	2.90e-03	-48.49	0.0	-233.49	35.68	108.02	1200.09	-1748.69	-262.66
		-262.66	-1748.69	6.52e-04	0.0	32.1	-233.37	-12.81	108.02	1200.09	1715.09	104.00
213	7	155.50	1667.73	2.98e-03	-48.49	0.0	-216.69	35.58	105.06	1227.51	-1701.11	-262.86
		-262.86	-1701.11	6.14e-04	0.0	32.1	-216.57	-12.91	105.06	1227.51	1667.73	100.61
213	14	181.27	1354.14	-0.01	-48.49	0.0	-97.24	29.10	-83.69	321.79	1354.14	-98.32
		-98.32	-1329.43	6.04e-04	0.0	32.1	-97.12	-19.38	-83.69	321.79	-1329.43	57.51
213	17	184.10	463.57	-4.77e-03	-48.49	0.0	-131.79	33.21	28.86	561.11	-461.81	-180.63
		-180.63	-461.81	5.81e-04	0.0	32.1	-131.67	-15.27	28.86	561.11	463.57	106.95
214	1	428.12	384.19	-0.02	-63.03	0.0	-236.40	61.64	-24.90	855.35	384.19	-537.74
		-537.74	-414.39	1.21e-03	0.0	32.1	-236.24	-1.40	-24.90	855.35	-414.39	428.12
214	4	255.58	234.03	-8.66e-03	-48.49	0.0	-137.38	39.86	-15.19	302.70	234.03	-269.69
		-269.69	-253.01	6.71e-04	0.0	32.1	-137.26	-8.63	-15.19	302.70	-253.01	231.04
214	6	251.18	1465.94	-0.01	-48.49	0.0	-55.91	26.60	-91.25	-838.73	1465.94	17.39
		17.39	-1460.29	5.52e-04	0.0	32.1	-55.79	-21.89	-91.25	-838.73	-1460.29	92.90
214	7	211.04	1006.60	2.51e-03	-48.49	0.0	-57.29	32.52	64.09	76.32	-1048.53	-138.55
		-138.55	-1048.53	3.40e-04	0.0	32.1	-57.17	-15.96	64.09	76.32	1006.60	127.01
214	16	258.94	1209.39	-0.01	-48.49	0.0	-107.66	27.17	-75.22	-940.37	1209.39	14.83
		14.83	-1202.56	7.02e-04	0.0	32.1	-107.54	-21.32	-75.22	-940.37	-1202.56	108.70
214	18	212.97	475.72	-4.17e-03	-48.49	0.0	-135.82	28.62	-30.31	-197.82	475.72	-57.24
		-57.24	-496.13	4.09e-04	0.0	32.1	-135.70	-19.87	-30.31	-197.82	-496.13	83.03
215	1	636.55	572.69	-0.01	-63.03	0.0	-154.50	56.64	-37.29	-3447.82	572.69	-178.98
		-178.98	-622.99	9.56e-04	0.0	32.1	-154.35	-6.39	-37.29	-3447.82	-622.99	626.73

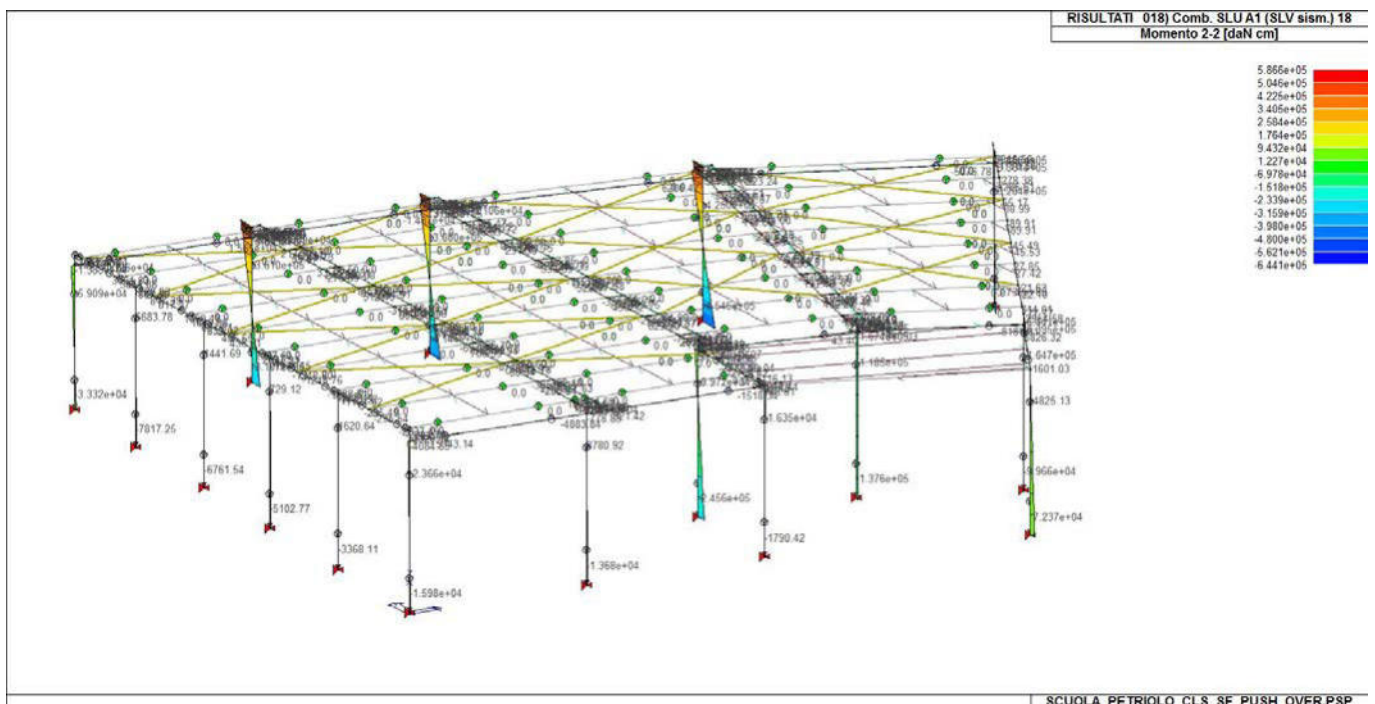
215	4	384.48	330.81	-7.88e-03	-48.49	0.0	-88.40	37.72	-21.55	-2012.63	330.81	-85.51
		-85.51	-360.28	5.21e-04	0.0	32.1	-88.28	-10.76	-21.55	-2012.63	-360.28	346.80
215	7	265.70	158.60	2.85e-03	-48.49	0.0	-63.94	30.77	11.32	-898.76	-204.28	-47.24
		-47.24	-204.28	4.38e-05	0.0	32.1	-63.82	-17.72	11.32	-898.76	158.60	161.94
215	8	318.22	870.08	-0.01	-48.49	0.0	-144.03	28.08	-54.01	-1824.89	870.08	57.62
		57.62	-862.01	6.50e-04	0.0	32.1	-143.91	-20.40	-54.01	-1824.89	-862.01	180.81
215	12	285.02	930.60	-3.78e-03	-48.49	0.0	-108.86	27.56	-58.82	-1344.04	930.60	33.90
		33.90	-955.49	6.32e-04	0.0	32.1	-108.74	-20.93	-58.82	-1344.04	-955.49	140.24
215	16	324.37	641.30	-0.01	-48.49	0.0	-139.71	28.64	-39.80	-1903.25	641.30	53.79
		53.79	-634.88	7.72e-04	0.0	32.1	-139.59	-19.85	-39.80	-1903.25	-634.88	194.72
215	17	304.31	119.65	-3.91e-03	-48.49	0.0	-55.67	30.37	-8.04	-1506.26	119.65	-0.70
		-0.70	-138.31	4.26e-04	0.0	32.1	-55.55	-18.11	-8.04	-1506.26	-138.31	195.79
216	1	682.67	1091.62	-0.01	-63.03	0.0	-55.90	43.67	-69.77	-6065.46	1091.62	197.68
		197.68	-1145.53	6.32e-04	0.0	32.1	-55.75	-19.36	-69.77	-6065.46	-1145.53	587.30
216	4	424.15	628.77	-5.60e-03	-48.49	0.0	-31.25	30.07	-40.17	-3378.61	628.77	125.24
		125.24	-659.40	3.34e-04	0.0	32.1	-31.14	-18.42	-40.17	-3378.61	-659.40	311.98
216	7	283.83	515.51	3.86e-03	-48.49	0.0	71.06	25.00	-33.88	-1402.39	515.51	77.30
		77.30	-571.03	-2.97e-04	0.0	32.1	71.18	-23.48	-33.88	-1402.39	-571.03	101.67
216	8	343.44	508.62	-8.66e-03	-48.49	0.0	-122.64	24.77	-31.23	-2288.23	508.62	140.69
		140.69	-492.83	7.60e-04	0.0	32.1	-122.52	-23.72	-31.23	-2288.23	-492.83	157.49
216	11	314.14	173.10	-2.38e-03	-48.49	0.0	-3.56	26.98	11.34	-1814.51	-190.65	73.52
		73.52	-190.65	-6.03e-05	0.0	32.1	-3.44	-21.51	11.34	-1814.51	173.10	161.18
216	12	314.85	1155.77	-2.43e-03	-48.49	0.0	-29.81	22.95	-72.80	-1865.25	1155.77	141.29
		99.71	-1178.80	4.92e-04	0.0	32.1	-29.69	-25.54	-72.80	-1865.25	-1178.80	99.71
216	16	348.59	288.05	-8.67e-03	-48.49	0.0	-118.14	25.30	-17.53	-2368.30	288.05	137.30
		137.30	-273.99	8.72e-04	0.0	32.1	-118.02	-23.19	-17.53	-2368.30	-273.99	171.18
Trave		M3 mx/mn	M2 mx/mn	D 2 / D 3	Q 2 / Q 3	N	V 2	V 3	T			
		-1.309e+06	-3.701e+04	-1.50	-6606.62	-4863.68	-6910.82	-2446.33	-6.129e+05			
		7.925e+05	3.931e+04	0.88	0.0	838.35	7341.75	2461.46	6.173e+05			



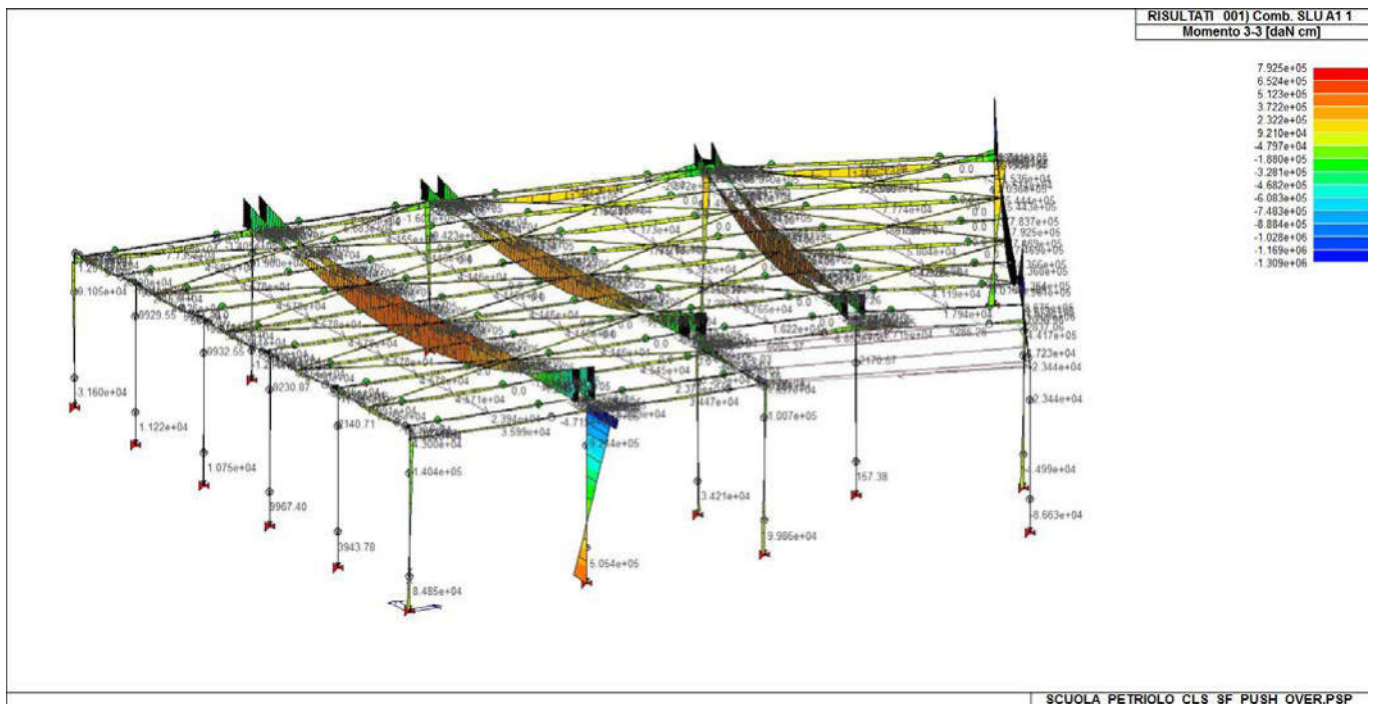
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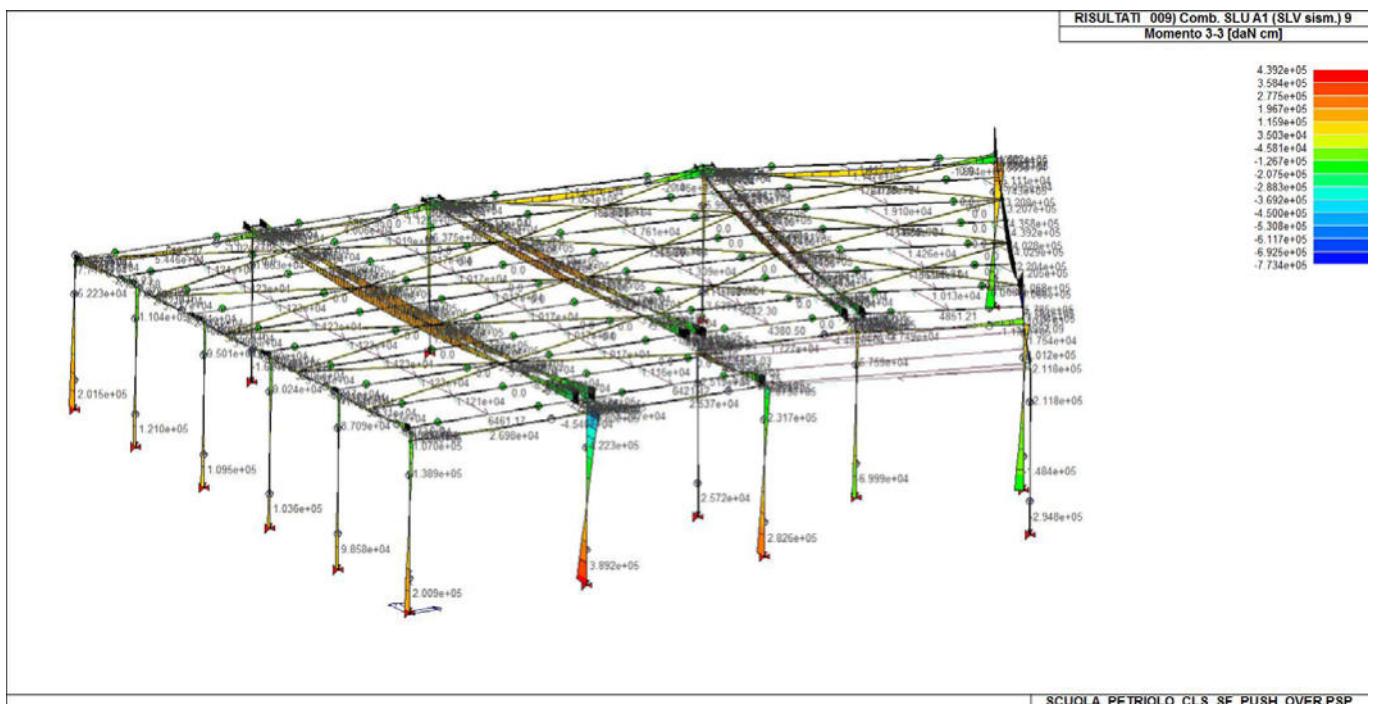
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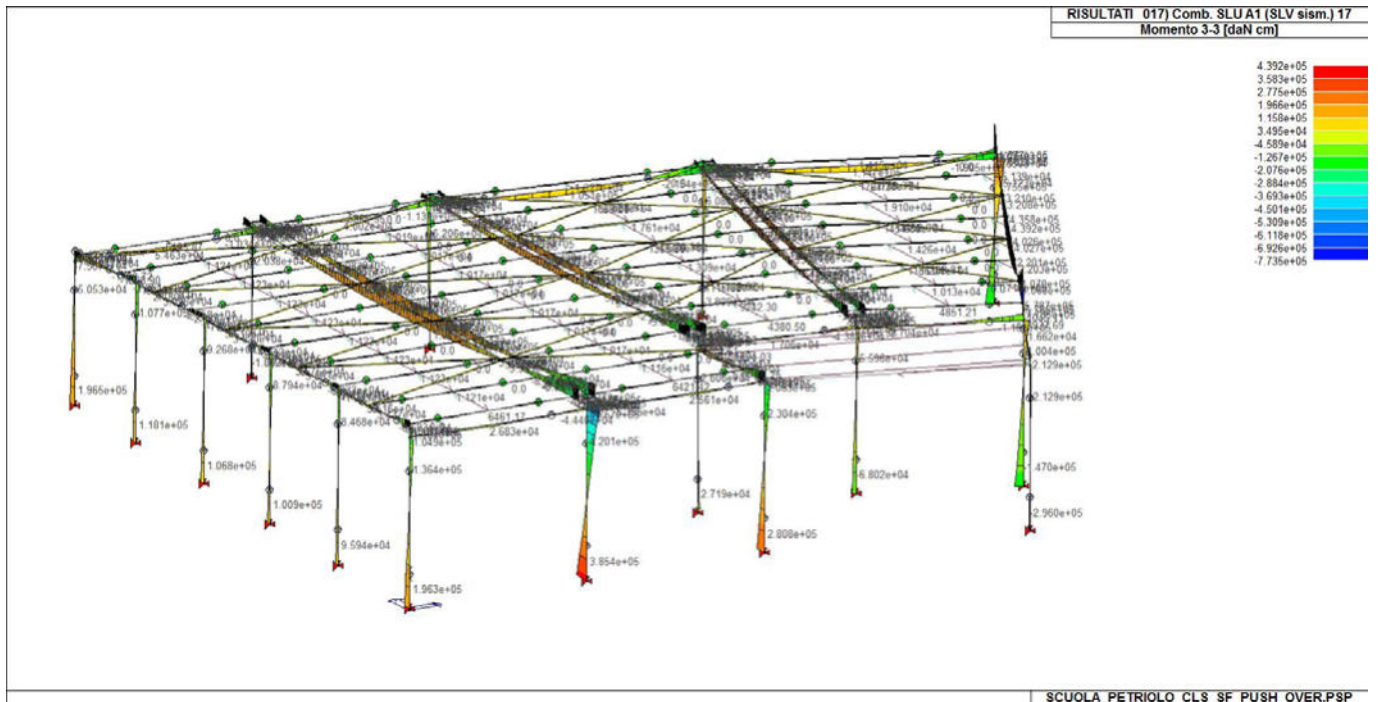
43_RIS_M2_018_Comb. SLU A1 (SLV sism.) 18



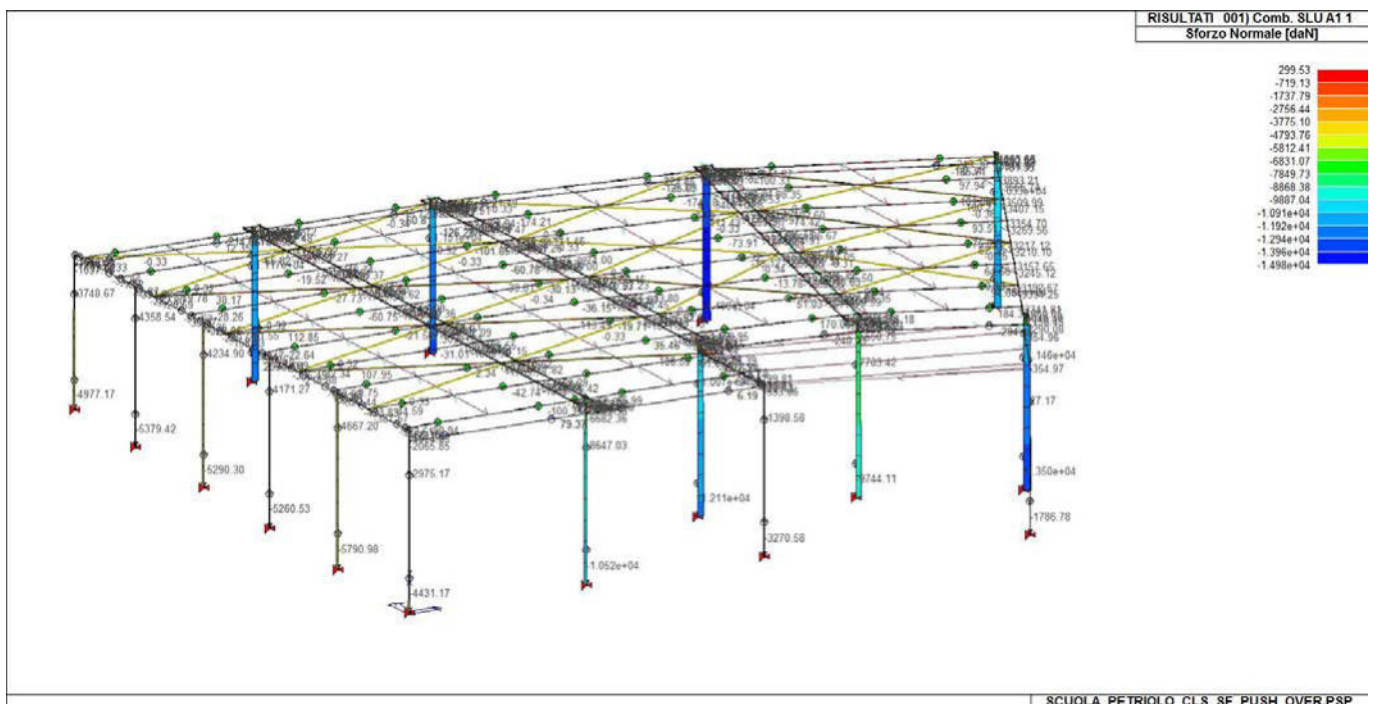
43_RIS_M3_001_Comb. SLU A1 1



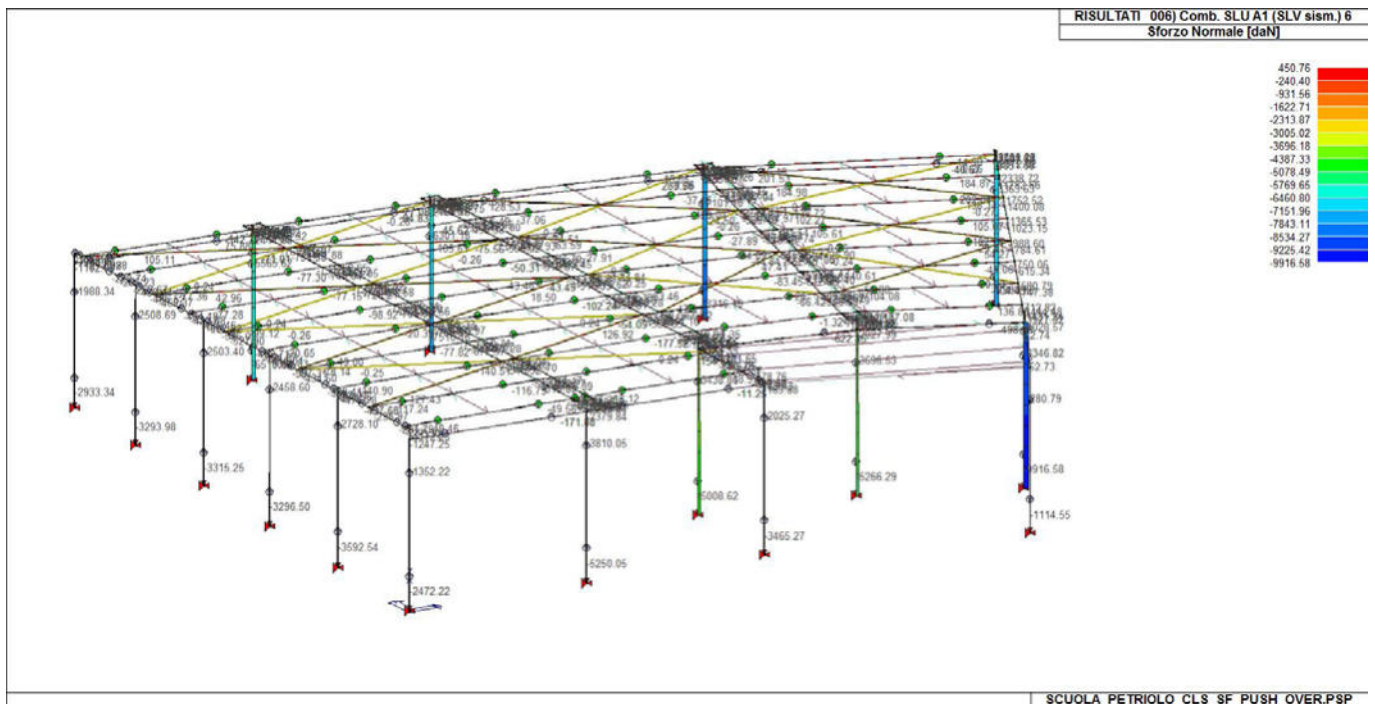
43_RIS_M3_009_Comb. SLU A1 (SLV sism.) 9



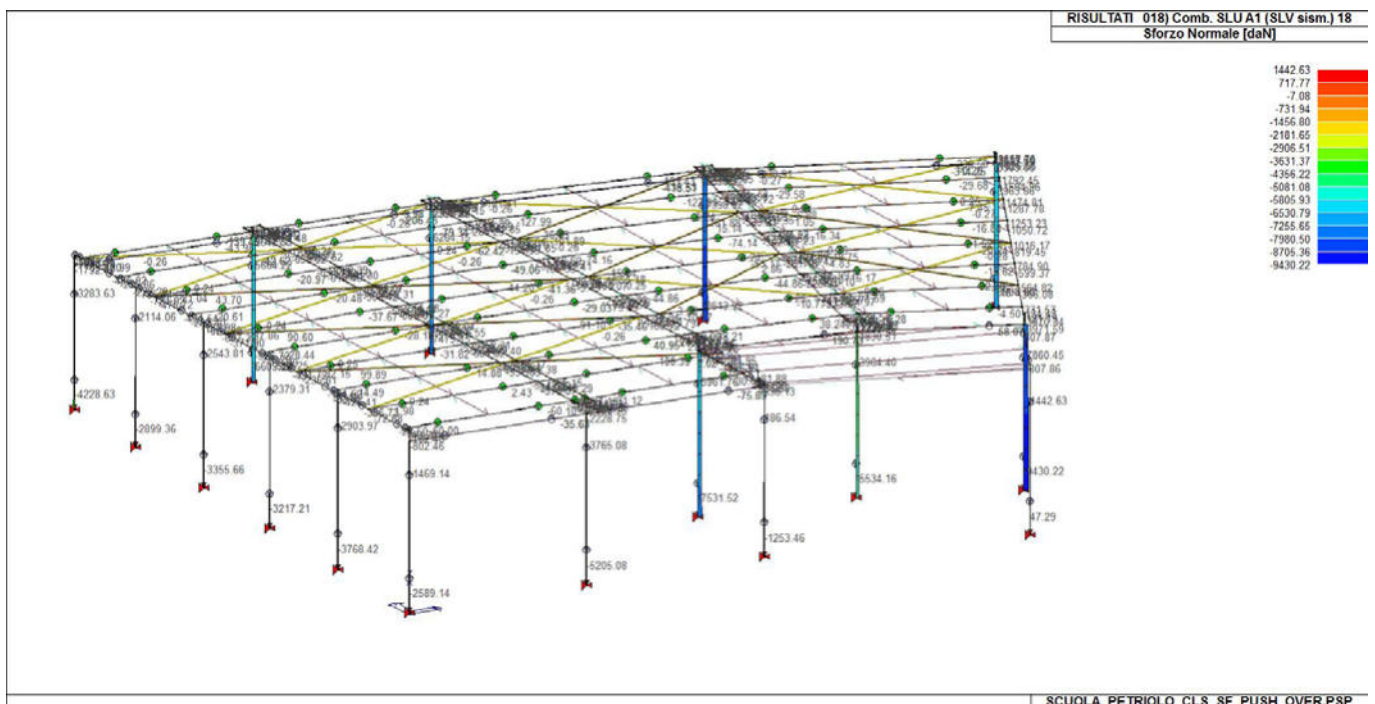
43_RIS_M3_017_Comb. SLU A1 (SLV sism.) 17



43_RIS_N_001_Comb. SLU A1 1



43_RIS_N_006_Comb. SLU A1 (SLV sism.) 6



43_RIS_N_018_Comb. SLU A1 (SLV sism.) 18

VERIFICHE ELEMENTI ESISTENTI

LEGENDA TABELLA VERIFICHE ELEMENTI ESISTENTI

Le verifiche degli elementi esistenti sono state condotte con riferimento al Capitolo 8 del D.M. 17 gennaio 2018. Il metodo adottato è quello previsto nella circolare 617 del 2 febbraio 2009 al punto C8.7.2.4 analisi lineare con spettro elastico.

Le modalità di analisi e le verifiche, che consistono nel confronto tra domanda e capacità, sono riassunte nella tabella C8.4 del succitato documento. Il programma consente di effettuare analisi lineare statica e dinamica e analisi non lineare statica. Qualora l'analisi effettuata sia lineare le verifiche sono precedute da un controllo di accettazione del modello lineare, atto a valutare la dispersione dei rapporti domanda/capacità.

Per gli elementi in c.a. sono previste le seguenti verifiche:

- flessione con e senza sforzo normale
- taglio
- nodi trave-pilastro

Con riferimento ai punti succitati le verifiche vengono così tabellate:

Tabella relativa alle verifiche di accettazione del modello lineare

Pilas. / Trave	numero dell'elemento considerato
ro I (J) acc.	massimo rapporto domanda/capacità in termini di momento flettente di cui al p.to C8.7.2.4 per la verifica di accettazione
ver. f. acc.	massimo rapporto domanda/capacità in termini di taglio di cui al p.to C8.7.2.4 per la verifica di accettazione
Rif. cmb	combinazioni per le quali si sono attinti i valori riportati

Tabella relativa alle verifiche degli elementi duttili e fragili

Pilas. / Trave	numero dell'elemento considerato
SL cod	Stato limite considerato e relativo esito delle verifica (NV non verifica, ok verifica)
ver. (d)	massimo rapporto domanda capacità in termini di deformazione per gli elementi duttili; nello specifico: rot. c / ThetaU per SLC rot. c / 0.75 ThetaU per SLV rot. c / ThetaY per SLD
ver. (f)	massimo rapporto domanda capacità in termini di verifica a taglio
rot. c	valore di rotazione rispetto alla corda (rappresenta la domanda in termini di deformazione) per cui si attinge il massimo valore della verifica ver. (d)
Theta Y	capacità di rotazione rispetto alla corda allo snervamento, calcolata con la formula 8.7.2.1°
Theta U	capacità di rotazione rispetto alla corda in condizioni di collasso
curv. Y	curvatura della sezione allo snervamento dell'acciaio
curv. U	curvatura ultima della sezione valutata considerando le deformazioni ultime di conglomerato (tenuto conto del confinamento) e acciaio
Lv	luce di taglio; rapporto momento/taglio utilizzato nelle succitate formule per il calcolo di Theta Y (U)
V2(V3)	valore del taglio 2 (3) per cui si attinge il massimo valore della verifica ver. (f)
ro V I (V J)	indicatori del rapporto domanda/capacità per gli elementi duttili; se inferiori a 1 le sollecitazioni degli elementi fragili sono assunte dall'analisi, in caso contrario sono assunte per equilibrio considerando le capacità degli elementi duttili
Rif. cmb	Combinazioni in cui si attingono i massimi valori dei rapporti domanda/capacità; per i pilastri, il numero tra parentesi indica l'asse(locale) di riferimento per le rotazioni riportate

Tabella relativa alle verifiche dei nodi trave pilastro

Pilas. S	numero del pilastro considerato (superiore al nodo)
Pilas. I	numero del relativo pilastro inferiore
Nodo	numero del nodo tra i pilastri
SL cod	Stato limite considerato e relativo esito delle verifica (NV non verifica, ok verifica, nrC non richiesta in quanto confinato)
ver. (+)	massimo rapporto domanda capacità con riferimento alla formula 8.7.2.2 della circolare (resistenza per trazione)
ver. (-)	massimo rapporto domanda capacità con riferimento alla formula 8.7.2.3 della circolare (resistenza per compres)
V +	valore del taglio, nel pilastro superiore, in direzione 2 o 3 per cui si attinge il massimo valore della verifica ver. (+)
V + af s	sollecitazione di trazione presente nell'armatura longitudinale superiore della trave da sommare (con segno) a V +
N +	azione assiale presente nel pilastro superiore contemporanea a V +
V -	valore del taglio, nel pilastro superiore, in direzione 2 o 3 per cui si attinge il massimo valore della verifica ver. (-)
V - af s	sollecitazione di trazione presente nell'armatura longitudinale superiore della trave da sommare (con segno) a V -
N -	azione assiale presente nel pilastro superiore contemporanea a V -
Area g	area del nodo (da Pilas. I)
Rif. cmb	combinazioni in cui si attingono i massimi valori dei rapporti domanda/capacità; per i nodi, il numero tra parentesi indica l'asse(locale) di riferimento per le sollecitazioni di taglio

Pilas.	SL cod	ver. (d)	ver. (f)	rot. c	Theta Y	Theta U	curv. Y /cm	curv. U /cm	Lv cm	V2 daN	V3 daN	ro V I	ro V J	Rif. cmb
22	SLV:ok	1.87e-03 5.01e-03	0.03	1.051e-05 -2.878e-05	7.503e-03 7.659e-03	5.627e-03 5.744e-03	1.121e-04 9.884e-05	5.695e-04 8.248e-04	20.0 20.0	920.5	292.0	0.0	0.0	7(2),10 12(3)
	SLD:ok	1.07e-03 2.43e-03		7.962e-06 -1.864e-05	7.434e-03 7.653e-03		1.094e-04 9.860e-05		20.0 20.0					23(2) 28(3)
23	SLV:ok	0.01 0.01	0.09	2.839e-04 -8.524e-05	1.032e-02 7.106e-03	1.991e-02 8.255e-03	9.853e-05 9.754e-05	6.626e-04 3.470e-04	208.7 99.9	1554.3	266.4	0.0	0.0	11(3),12 18(3)
	SLD:ok	0.02 0.01		-1.579e-04 1.074e-04	8.941e-03 8.490e-03		9.872e-05 1.125e-04		163.0 122.2					28(3) 31(2)
24	SLV:ok	0.03 0.04	0.11	-2.567e-04 3.761e-04	9.073e-03 1.037e-02	8.587e-03 9.705e-03	1.076e-04 1.117e-04	2.786e-04 2.990e-04	157.4 178.9	118.8	2591.6	0.0	0.0	16(3),12 16(2)
	SLD:ok	0.03 0.04		2.273e-04 3.929e-04	8.930e-03 1.036e-02		1.239e-04 1.237e-04		115.8 154.4					28(2) 36(2)
27	SLV:ok	0.03 0.06	0.14	2.114e-04 6.591e-04	7.406e-03 1.059e-02	6.661e-03 1.112e-02	1.076e-04 1.163e-04	2.695e-04 3.603e-04	95.7 174.9	339.2	3340.5	0.0	0.0	6(2),18 14(2)
	SLD:ok	0.03 0.06		2.519e-04 6.447e-04	8.437e-03 1.057e-02		1.237e-04 1.196e-04		102.3 167.7					34(2) 34(2)
29	SLV:ok	1.27e-03 8.20e-03	0.04	7.458e-06 -4.794e-05	7.854e-03 7.797e-03	5.890e-03 5.848e-03	8.435e-05 8.480e-05	8.520e-04 9.758e-04	19.7 20.0	1269.6	-1688.6	0.0	0.0	5(3),6 17(2)
	SLD:ok	5.82e-04 5.46e-03		4.548e-06 -4.254e-05	7.811e-03 7.797e-03		8.450e-05 8.479e-05		19.9 20.0					21(3) 33(2)
44	SLV:ok	9.87e-04 7.75e-03	0.03	5.582e-06 4.534e-05	7.542e-03 7.800e-03	5.657e-03 5.850e-03	8.454e-05 8.492e-05	8.376e-04 9.421e-04	18.7 20.0	-832.8	1285.0	0.0	0.0	5(3),7 10(2)
	SLD:ok	5.18e-04 5.06e-03		3.974e-06 3.950e-05	7.676e-03 7.800e-03		8.465e-05 8.490e-05		18.0 20.0					21(3) 26(2)
91	SLV:ok	4.01e-04 0.02	0.07	-2.340e-06 -8.838e-05	7.781e-03 7.783e-03	5.836e-03 5.837e-03	8.412e-05 8.420e-05	9.829e-04 9.992e-04	20.0 20.0	144.6	-4204.5	0.0	0.0	6(3),17 17(2)
	SLD:ok	1.92e-04 0.01		-1.494e-06 -8.270e-05	7.781e-03 7.783e-03		8.415e-05 8.420e-05		20.0 20.0					22(3) 33(2)
102	SLV:ok	0.02 0.03	0.10	1.641e-04 2.960e-04	8.682e-03 9.941e-03	8.436e-03 1.062e-02	8.869e-05 9.563e-05	2.547e-04 3.136e-04	178.4 204.5	-2607.6	-30.7	0.0	0.0	7(2),11 7(3)
	SLD:ok	0.02 0.03		2.066e-04 3.097e-04	8.695e-03 9.752e-03		1.039e-04 1.038e-04		143.2 176.8					27(3) 27(3)
103	SLV:ok	0.03 0.02	0.13	-2.811e-04 -3.292e-04	7.784e-03 8.201e-03	1.095e-02 1.386e-02	8.701e-05 8.823e-05	3.971e-04 5.017e-04	148.6 161.5	797.8	-3858.7	0.0	0.0	9(2),17 9(2)
	SLD:ok	0.03 0.03		-2.027e-04 -2.929e-04	7.606e-03 8.456e-03		8.755e-05 8.864e-05		140.0 170.1					33(2) 33(2)
104	SLV:ok	0.02 7.56e-03	0.06	-2.431e-04 -1.304e-04	9.564e-03 8.225e-03	1.339e-02 1.724e-02	9.995e-05 1.029e-04	4.513e-04 7.220e-04	180.4 129.7	1641.2	267.3	0.0	0.0	9(3),17 17(3)
	SLD:ok	0.02 9.59e-03		-1.602e-04 -7.771e-05	9.715e-03 8.104e-03		1.004e-04 1.027e-04		184.2 125.9					33(3) 33(3)
113	SLV:ok	0.01 9.90e-03	0.03	-2.594e-04 -2.299e-04	1.230e-02 1.184e-02	2.257e-02 2.322e-02	1.425e-04 1.425e-04	8.482e-04 9.057e-04	169.6 159.7	654.2	23.6	0.0	0.0	12(3),12 12(3)
	SLD:ok	0.01 0.01		1.588e-04 -1.391e-04	1.259e-02 1.191e-02		1.423e-04 1.423e-04		176.3 161.4					27(3) 28(3)
153	SLV:ok	0.02 0.01	0.09	1.868e-04 -2.003e-04	9.052e-03 8.101e-03	1.054e-02 1.385e-02	8.944e-05 9.214e-05	3.268e-04 5.242e-04	189.9 147.4	-127.9	-2826.3	0.0	0.0	7(3),11 17(2)
	SLD:ok	0.02 0.02		-1.601e-04 -1.569e-04	8.342e-03 8.276e-03		9.233e-05 9.203e-05		155.9 154.2					27(2) 27(2)
156	SLV:ok	0.01 9.55e-03	0.06	2.283e-04 1.547e-04	9.684e-03 8.613e-03	1.920e-02 1.620e-02	1.032e-04 1.024e-04	6.955e-04 6.383e-04	176.2 143.8	-1607.2	-51.8	0.0	0.0	11(3),9 11(3)
	SLD:ok	0.02 0.01		1.459e-04 1.065e-04	9.588e-03 8.711e-03		1.032e-04 1.023e-04		173.2 147.1					27(3) 25(3)
160	SLV:ok	0.01 9.10e-03	0.04	2.650e-04 2.096e-04	1.568e-02 1.135e-02	2.238e-02 2.304e-02	1.184e-04 1.425e-04	5.879e-04 9.333e-04	304.1 148.6	-685.6	12.9	0.0	0.0	15(2),11 11(3)
	SLD:ok	0.01 0.01		1.640e-04 1.257e-04	1.232e-02 1.134e-02		1.422e-04 1.424e-04		170.5 148.7					27(3) 27(3)
161	SLV:ok	0.01 9.49e-03	0.04	2.881e-04 2.139e-04	1.534e-02 1.112e-02	2.238e-02 2.254e-02	1.185e-04 1.424e-04	6.009e-04 9.268e-04	295.0 143.7	-747.1	18.5	0.0	0.0	15(2),11 11(3)
	SLD:ok	0.01 0.01		1.689e-04 1.288e-04	1.208e-02 1.112e-02		1.421e-04 1.423e-04		165.5 143.8					27(3) 27(3)
162	SLV:ok	0.01 0.01	0.04	2.958e-04 2.475e-04	1.171e-02 1.107e-02	2.200e-02 2.120e-02	1.426e-04 1.422e-04	8.614e-04 8.683e-04	156.4 142.7	-875.0	37.6	0.0	0.0	11(3),11 11(3)
	SLD:ok	0.02 0.01		1.768e-04 1.474e-04	1.169e-02 1.103e-02		1.422e-04 1.417e-04		156.6 142.5					27(3) 27(3)
170	SLV:ok	0.02 0.02	0.09	1.831e-04 -1.667e-04	8.104e-03 8.230e-03	8.617e-03 8.237e-03	8.423e-05 8.341e-05	2.737e-04 2.512e-04	169.2 176.8	411.5	-2850.9	0.0	0.0	7(3),9 7(2)
	SLD:ok	0.02 0.02		-1.758e-04 -1.802e-04	8.055e-03 8.114e-03		8.891e-05 8.899e-05		154.1 156.1					33(2) 25(2)
171	SLV:ok	1.20e-03 8.53e-03	0.04	7.113e-06 -4.977e-05	7.872e-03 7.777e-03	5.904e-03 5.832e-03	8.354e-05 8.396e-05	8.982e-04 1.013e-03	19.5 20.0	196.7	-2511.2	0.0	0.0	5(3),17 17(2)
	SLD:ok	5.49e-04 5.56e-03		4.295e-06 -4.323e-05	7.828e-03 7.776e-03		8.368e-05 8.395e-05		19.7 20.0					21(3) 33(2)
189	SLV:ok	0.01 0.01	0.07	1.585e-04 1.152e-04	1.019e-02 8.896e-03	1.361e-02 1.010e-02	1.111e-04 1.071e-04	4.677e-04 3.640e-04	174.8 144.9	-1170.4	66.5	0.0	0.0	15(2),11 7(2)

	SLD:ok	0.02		1.548e-04	9.469e-03		9.908e-05		179.6					27(3)
		0.01		9.665e-05	8.251e-03		9.834e-05		140.4					27(3)
190	SLV:ok	1.76e-03	0.02	9.508e-06	7.204e-03	5.403e-03	1.001e-04	3.072e-04	20.0	-244.3	646.0	0.0	0.0	5(2),5
		4.49e-03		2.583e-05	7.665e-03	5.749e-03	9.905e-05	8.811e-04	20.0					11(3)
	SLD:ok	8.99e-04		6.423e-06	7.144e-03		9.772e-05		20.0					21(2)
		2.40e-03		1.839e-05	7.662e-03		9.895e-05		20.0					27(3)
191	SLV:ok	6.47e-04	0.04	3.923e-06	8.087e-03	6.066e-03	9.645e-05	9.862e-04	20.0	-2162.9	-53.9	0.0	0.0	5(2),19
		0.01		7.880e-05	7.605e-03	5.703e-03	9.664e-05	1.023e-03	20.0					11(3)
	SLD:ok	2.99e-04		2.416e-06	8.089e-03		9.652e-05		20.0					21(2)
		9.45e-03		7.186e-05	7.604e-03		9.663e-05		20.0					27(3)
192	SLV:ok	1.36e-03	0.05	-8.233e-06	8.056e-03	6.042e-03	1.148e-04	9.060e-04	20.0	932.8	1614.3	0.0	0.0	6(3),6
		0.02		1.087e-04	7.580e-03	5.685e-03	1.153e-04	9.807e-04	20.0					12(2)
	SLD:ok	6.64e-04		-5.371e-06	8.088e-03		1.149e-04		19.8					22(3)
		0.01		9.887e-05	7.580e-03		1.152e-04		20.0					28(2)
193	SLV:ok	1.65e-03	0.07	-9.958e-06	8.068e-03	6.051e-03	1.153e-04	9.062e-04	20.0	1105.0	2558.2	0.0	0.0	8(3),8
		0.03		1.431e-04	7.590e-03	5.693e-03	1.156e-04	9.671e-04	20.0					10(2)
	SLD:ok	1.01e-03		-8.159e-06	8.070e-03		1.153e-04		20.0					24(3)
		0.02		1.371e-04	7.590e-03		1.156e-04		20.0					26(2)
194	SLV:ok	0.02	0.11	2.504e-04	9.864e-03	1.131e-02	9.774e-05	3.486e-04	196.0	166.4	3257.9	0.0	0.0	15(3),18
		0.02		2.082e-04	9.571e-03	9.107e-03	8.893e-05	2.518e-04	210.3					16(2)
	SLD:ok	0.02		1.462e-04	7.423e-03		9.121e-05		123.3					34(2)
		0.03		2.017e-04	7.933e-03		8.993e-05		146.7					34(2)
195	SLV:ok	0.02	0.09	2.524e-04	8.866e-03	1.175e-02	9.967e-05	4.162e-04	158.2	-355.6	2915.1	0.0	0.0	15(3),20
		0.02		1.840e-04	9.192e-03	8.777e-03	9.029e-05	2.542e-04	192.4					5(2)
	SLD:ok	0.02		1.375e-04	7.414e-03		8.961e-05		126.9					26(2)
		0.02		1.728e-04	7.755e-03		8.857e-05		143.2					36(2)
196	SLV:ok	1.85e-03	0.04	1.013e-05	7.292e-03	5.469e-03	8.409e-05	5.090e-04	20.0	1089.3	1326.1	0.0	0.0	7(3),6
		8.16e-03		4.763e-05	7.781e-03	5.836e-03	8.412e-05	6.095e-04	20.0					10(2)
	SLD:ok	1.11e-03		8.061e-06	7.294e-03		8.414e-05		20.0					23(3)
		5.32e-03		4.142e-05	7.781e-03		8.412e-05		20.0					26(2)

Pilas. ver. (d) ver. (f)
0.06 0.14

Pilas.I	Pilas.S	NodoSL	codver. (+)	V + daN	V + af s daN	N + daN	ver. (-)	V - daN	V - af s daN	N - daN	Area G cm2	Rif. cmb	
22		61	SLV:ok	0.28	0.0	-5930.10	0.0	0.03	0.0	-5930.10	0.0	1400.0	12(2),12(2)
23	22	30	SLV:ok	0.31	650.86	-7605.40	983.04	0.04	650.86	-7605.40	983.04	1400.0	15(3),15(3)
24	192	31	SLV:ok	0.33	897.97	-9010.09	2414.24	0.05	897.97	-9010.09	2414.24	1400.0	16(2),16(2)
27	193	34	SLV:ok	0.36	1038.11	-1.032e+04	3846.87	0.07	1038.11	-1.032e+04	3846.87	1400.0	14(2),14(2)
29		43	SLV:ok	0.02	0.0	-624.07	0.02,48e-03	0.0	-624.07	0.0	2025.0	11(2),11(2)	
44		27	SLV:ok	0.02	0.0	616.14	0.02,75e-03	0.0	616.14	0.0	1800.0	10(2),10(2)	
102	191	36	SLV:ok	0.18	601.18	-6463.77	2388.83	0.03	601.18	-6463.77	2388.83	1800.0	7(3),7(3)
103	91	40	SLV:ok	0.42	-286.02	-1.443e+04	3967.96	0.07	-286.02	-1.443e+04	3967.96	2025.0	10(3),10(3)
104		23	SLV:ok	0.24	0.0	-6488.81	0.0	0.03	0.0	-6488.81	0.0	1800.0	17(2),17(2)
113		32	SLV:ok	0.28	0.0	-4363.78	0.0	0.03	0.0	-4363.78	0.0	1050.0	12(2),12(2)
153	29	38	SLV:ok	0.33	-429.79	-1.039e+04	1931.01	0.05	-429.79	-1.039e+04	1931.01	2025.0	12(3),12(3)
156		37	SLV:ok	0.24	0.0	6353.52	0.0	0.03	0.0	6353.52	0.0	1800.0	11(2),11(2)
160		63	SLV:ok	0.27	0.0	4256.29	0.0	0.03	0.0	4256.29	0.0	1050.0	11(2),11(2)
161		62	SLV:ok	0.29	0.0	4483.58	0.0	0.03	0.0	4483.58	0.0	1050.0	11(2),11(2)
162		60	SLV:ok	0.33	0.0	5216.49	0.0	0.04	0.0	5216.49	0.0	1050.0	11(2),11(2)
170	171	39	SLV:ok	0.23	-1213.06	9065.87	2100.63	0.04	-1213.06	9065.87	2100.63	2025.0	7(2),7(2)
171		128	SLV:ok	1.45e-03	0.0	43.84	0.01,74e-04	0.0	43.84	0.0	2025.0	5(2),5(2)	
189	190	35	SLV:ok	0.13	643.36	-3989.38	1306.44	0.02	643.36	-3989.38	1306.44	1400.0	7(3),7(3)
190		18	SLV:ok	0.26	0.0	5459.54	0.0	0.03	0.0	5459.54	0.0	1400.0	11(2),11(2)
191		19	SLV:ok	3.58e-04	0.0	9.65	0.04,31e-05	0.0	9.65	0.0	1800.0	11(3),11(3)	
192		26	SLV:ok	1.28e-03	0.0	-26.77	0.01,54e-04	0.0	-26.77	0.0	1400.0	5(2),5(2)	
194	196	15	SLV:ok	0.37	1060.27	-1.209e+04	2354.75	0.05	1060.27	-1.209e+04	2354.75	1800.0	16(2),16(2)
195	44	16	SLV:ok	0.34	-791.58	1.092e+04	2169.26	0.05	-791.58	1.092e+04	2169.26	1800.0	15(2),15(2)
196		28	SLV:ok	0.05	0.0	-1304.56	0.05,82e-03	0.0	-1304.56	0.0	1800.0	10(2),10(2)	

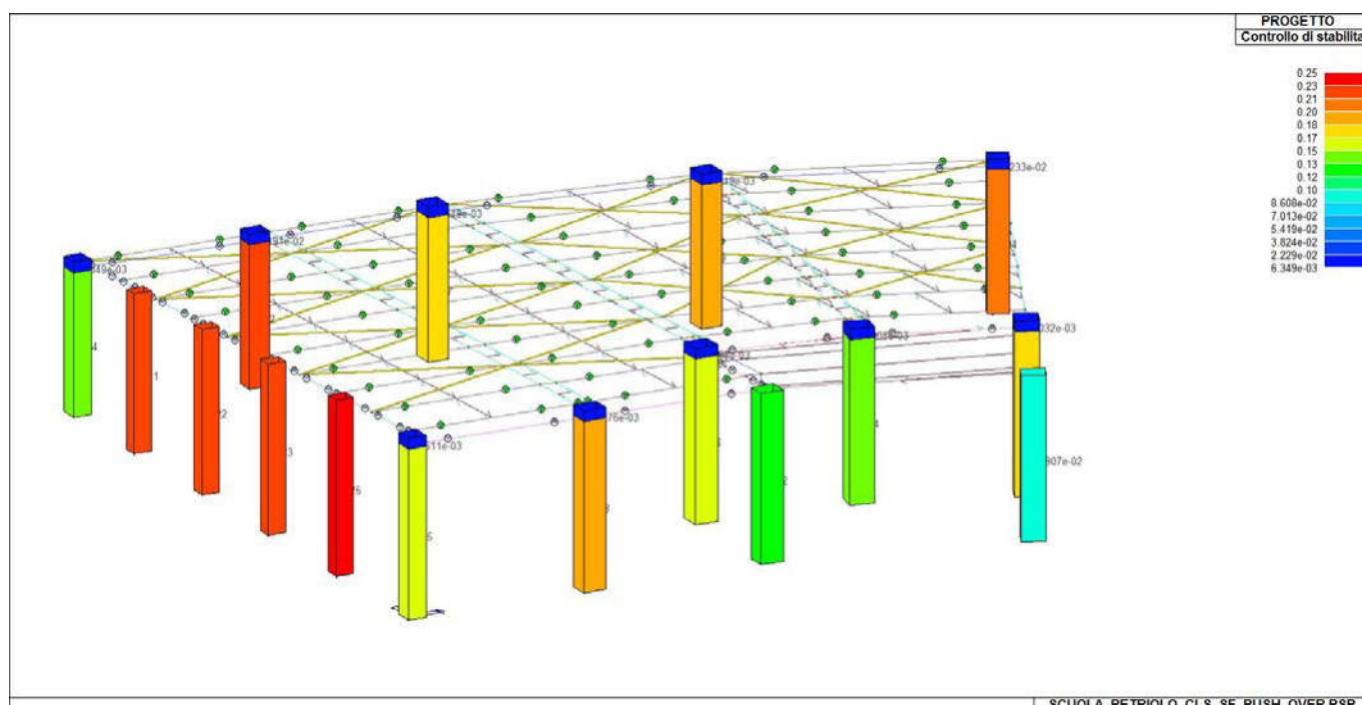
Pilas.I ver. (+) ver. (-)
3.58e-04 4.31e-05
0.42 0.07

Trave	SL cod	ver. (d)	ver. (f)	rot. c	Theta Y	Theta U	curv. Y /cm	curv. U /cm	Lv cm	V2 daN	ro V I	ro V J	Rif. cmb
25	SLV:ok	1.60e-03	0.08	-9.623e-06	8.001e-03	6.000e-03	8.034e-05	1.201e-03	15.9	1235.4	0.0	0.0	12,12
		4.13e-05		7.386e-06	2.384e-01	1.788e-01	8.052e-05	1.202e-03	0.3				5
	SLD:ok	1.17e-03		-9.371e-06	8.005e-03		8.035e-05		15.9				28
		2.36e-05		7.393e-06	3.134e-01		8.046e-05		0.3				21
26	SLV:ok	1.97e-03	0.08	-1.174e-05	7.955e-03	5.967e-03	8.049e-05	1.202e-03	16.1	1175.4	0.0	0.0	10,10
		0.0		0.0	0.0	0.0	0.0	0.0	0.0				0
	SLD:ok	1.39e-03		-1.107e-05	7.955e-03		8.048e-05		16.1				26
		0.0		0.0	0.0		0.0		0.0				0

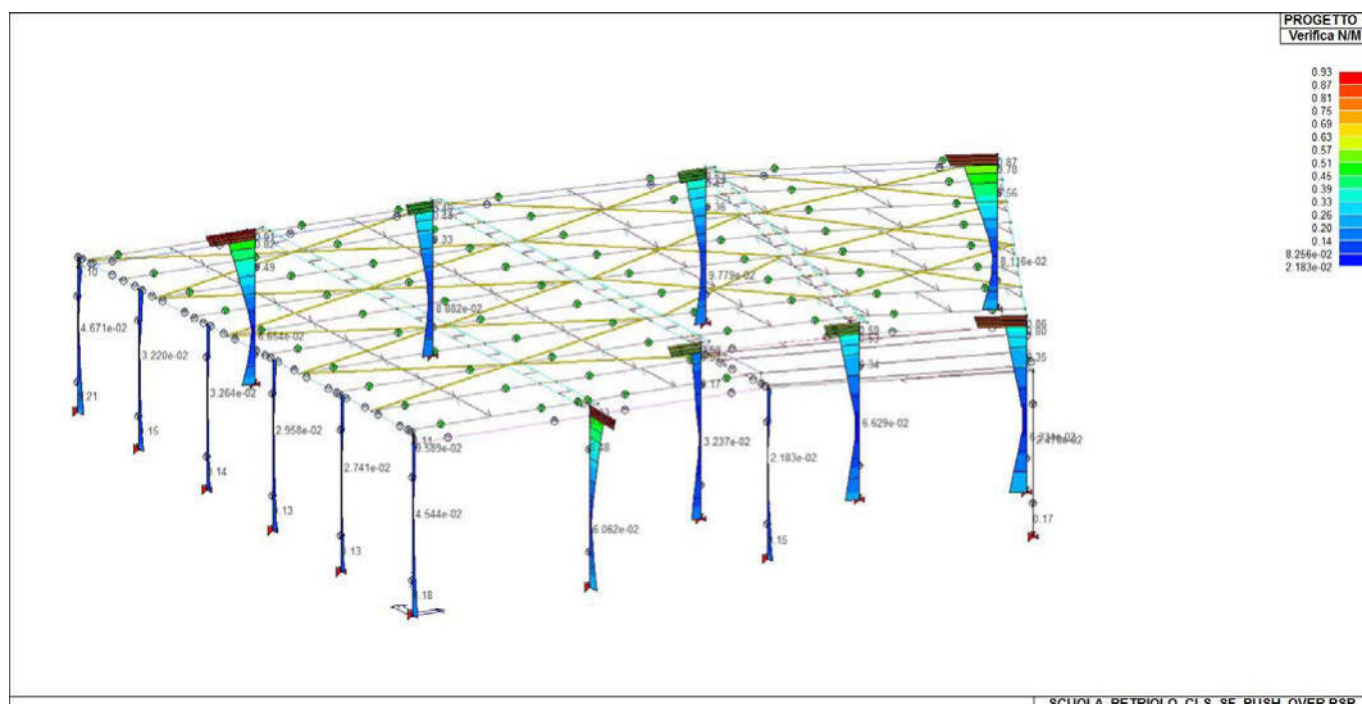
28	SLV:ok	2.07e-03	0.07	-1.234e-05	7.952e-03	5.964e-03	8.050e-05	1.202e-03	16.1	1110.3	0.0	0.0	10,10
		0.0		0.0	0.0	0.0	0.0	0.0	0.0				0
	SLD:ok	1.46e-03		-1.158e-05	7.951e-03		8.047e-05		16.1				26
		0.0		0.0	0.0		0.0		0.0				0
31	SLV:ok	3.36e-03	0.04	1.146e-04	9.174e-03	3.414e-02	8.256e-05	1.213e-03	222.1	-1311.9	0.0	0.0	8,8
		3.26e-03		8.771e-05	6.925e-03	2.688e-02	8.256e-05	1.213e-03	131.6				8
	SLD:ok	7.91e-03		7.548e-05	9.537e-03		8.253e-05		236.2				24
		8.48e-03		5.604e-05	6.607e-03		8.253e-05		117.6				24
34	SLV:ok	3.85e-03	0.05	-1.048e-04	6.976e-03	2.720e-02	8.250e-05	1.219e-03	134.0	1466.5	0.0	0.0	5,7
		4.35e-03		-1.487e-04	9.103e-03	3.417e-02	8.247e-05	1.221e-03	219.7				7
	SLD:ok	0.01		-6.985e-05	6.745e-03		8.248e-05		123.9				23
		0.01		-9.648e-05	9.366e-03		8.248e-05		229.8				23
35	SLV:ok	6.15e-03	0.06	-1.510e-04	7.358e-03	2.455e-02	8.394e-05	1.113e-03	157.9	-1930.7	0.0	0.0	7,8
		5.27e-03		1.163e-04	6.619e-03	2.207e-02	8.426e-05	1.105e-03	126.4				8
	SLD:ok	0.01		-9.055e-05	7.168e-03		8.400e-05		150.0				23
		0.01		7.724e-05	6.525e-03		8.419e-05		122.5				24
36	SLV:ok	4.92e-03	0.06	-1.083e-04	6.556e-03	2.202e-02	8.401e-05	1.111e-03	124.3	1879.1	0.0	0.0	5,5
		5.79e-03		1.413e-04	7.367e-03	2.440e-02	8.420e-05	1.106e-03	157.6				6
	SLD:ok	0.01		-7.310e-05	6.472e-03		8.405e-05		120.5				21
		0.01		8.535e-05	7.150e-03		8.416e-05		148.9				22
45	SLV:ok	3.17e-03	0.08	7.593e-05	7.719e-03	2.395e-02	1.149e-04	1.303e-03	113.8	-1911.2	0.0	0.0	11,12
		6.96e-03		1.418e-04	6.664e-03	2.038e-02	1.152e-04	1.290e-03	80.5				12
	SLD:ok	8.20e-03		5.626e-05	6.858e-03		1.150e-04		87.2				27
		0.02		1.051e-04	6.467e-03		1.151e-04		73.6				28
47	SLV:ok	5.28e-03	0.08	5.535e-05	6.074e-03	1.047e-02	1.147e-04	1.317e-03	26.3	-1802.9	0.0	0.0	11,12
		7.99e-03		8.191e-05	6.089e-03	1.025e-02	1.154e-04	1.280e-03	26.3				12
	SLD:ok	5.71e-03		3.471e-05	6.077e-03		1.148e-04		26.3				27
		8.83e-03		5.373e-05	6.086e-03		1.152e-04		26.3				28
52	SLV:ok	7.46e-03	0.09	-1.475e-04	6.456e-03	1.979e-02	1.149e-04	1.307e-03	73.3	2122.4	0.0	0.0	11,11
		2.37e-03		-4.665e-05	6.456e-03	1.968e-02	1.150e-04	1.299e-03	73.3				12
	SLD:ok	0.02		-1.072e-04	6.383e-03		1.149e-04		70.8				27
		4.02e-03		-2.438e-05	6.062e-03		1.150e-04		57.2				28
53	SLV:ok	2.66e-03	0.07	5.578e-05	6.719e-03	2.100e-02	1.147e-04	1.314e-03	82.9	-1623.5	0.0	0.0	11,12
		6.02e-03		1.240e-04	6.751e-03	2.059e-02	1.153e-04	1.284e-03	83.2				12
	SLD:ok	5.31e-03		3.221e-05	6.069e-03		1.148e-04		57.8				27
		0.01		8.922e-05	6.493e-03		1.152e-04		74.5				28
54	SLV:ok	2.05e-03	0.07	1.094e-05	7.106e-03	5.330e-03	1.149e-04	1.308e-03	16.0	-1601.3	0.0	0.0	15,12
		5.36e-03		1.002e-04	6.306e-03	1.870e-02	1.153e-04	1.282e-03	67.3				12
	SLD:ok	3.06e-03		1.793e-05	5.856e-03		1.148e-04		34.9				27
		0.01		7.918e-05	6.301e-03		1.152e-04		67.3				28
55	SLV:ok	5.83e-03	0.07	-1.032e-04	6.060e-03	1.769e-02	1.149e-04	1.308e-03	57.4	1635.7	0.0	0.0	11,11
		1.73e-03		-2.824e-05	5.923e-03	1.629e-02	1.150e-04	1.299e-03	49.3				12
	SLD:ok	0.01		-8.117e-05	6.061e-03		1.149e-04		57.4				27
		2.41e-03		-1.451e-05	6.026e-03		1.150e-04		27.5				28
56	SLV:ok	3.48e-03	0.04	8.741e-05	8.267e-03	2.515e-02	1.152e-04	1.291e-03	129.4	1008.4	0.0	0.0	12,11
		2.84e-03		-6.718e-05	7.543e-03	2.362e-02	1.148e-04	1.312e-03	108.8				11
	SLD:ok	8.71e-03		7.497e-05	8.606e-03		1.151e-04		139.2				28
		8.04e-03		-6.385e-05	7.943e-03		1.149e-04		120.5				27
57	SLV:ok	2.69e-03	0.07	7.115e-05	8.644e-03	2.643e-02	1.149e-04	1.307e-03	140.6	-1496.5	0.0	0.0	15,12
		8.97e-03		-2.354e-04	8.524e-03	2.624e-02	1.148e-04	1.312e-03	137.4				11
	SLD:ok	8.04e-03		6.953e-05	8.646e-03		1.149e-04		140.6				31
		0.02		-1.634e-04	8.643e-03		1.149e-04		140.6				27
81	SLV:ok	2.98e-05	0.08	-7.522e-06	3.362e-01	2.521e-01	8.058e-05	1.202e-03	0.2	-1246.8	0.0	0.0	6,12
		1.62e-03		9.718e-06	7.997e-03	5.998e-03	8.044e-05	1.201e-03	15.9				12
	SLD:ok	1.43e-05		-7.525e-06	5.253e-01		8.052e-05		0.1				22
		1.19e-03		9.492e-06	7.988e-03		8.043e-05		16.0				26
82	SLV:ok	3.12e-05	0.07	-6.394e-06	2.735e-01	2.051e-01	8.045e-05	1.202e-03	0.3	-1094.3	0.0	0.0	6,12
		1.41e-03		8.493e-06	8.007e-03	6.005e-03	8.036e-05	1.201e-03	15.9				12
	SLD:ok	1.86e-05		-6.386e-06	3.428e-01		8.041e-05		0.2				22
		1.02e-03		8.188e-06	8.009e-03		8.034e-05		15.9				26
83	SLV:ok	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	-1352.7	0.0	0.0	0,10
		2.27e-03		1.354e-05	7.951e-03	5.963e-03	8.039e-05	1.201e-03	16.1				10
	SLD:ok	0.0		0.0	0.0		0.0		0.0				0
		1.58e-03		1.260e-05	7.952e-03		8.040e-05		16.1				26
84	SLV:ok	1.22e-05	0.08	-7.389e-06	8.087e-01	6.065e-01	8.028e-05	1.201e-03	9.68e-02	-1239.0	0.0	0.0	5,11
		1.62e-03		9.680e-06	7.977e-03	5.983e-03	8.041e-05	1.201e-03	16.0				11
	SLD:ok	4.04e-06		-7.373e-06	1.827e+00		8.032e-05		4.28e-02				21
		1.18e-03		9.393e-06	7.977e-03		8.040e-05		16.0				27
85	SLV:ok	3.35e-05	0.10	-6.535e-06	2.599e-01	1.949e-01	8.004e-05	1.200e-03	0.3	-1064.6	0.0	0.0	5,19
		1.47e-03		8.777e-06	7.977e-03	5.983e-03	8.043e-05	1.201e-03	16.0				9
	SLD:ok	1.32e-05		-6.538e-06	4.962e-01		8.018e-05		0.2				21
		1.06e-03		8.452e-06	7.977e-03		8.041e-05		16.0				25
86	SLV:ok	3.47e-04	0.09	-5.863e-06	2.255e-02	1.691e-02	8.042e-05	1.201e-03	3.9	1066.0	0.0	0.0	20,17
		1.45e-03		-8.685e-06	7.996e-03	5.997e-03	8.033e-05	1.201e-03	15.9				9
	SLD:ok	1.71e-04		-6.019e-06	3.520e-02		8.040e-05		2.4				36
		1.03e-03		-8.245e-06	7.997e-03		8.035e-05		15.9				25
87	SLV:ok	6.60e-05	0.10	-6.274e-06	1.267e-01	9.503e-02	8.011e-05	1.200e-03	0.6	-930.3	0.0	0.0	5,13
		1.42e-03		8.519e-06	8.006e-03	6.004e-03	8.044e-05	1.201e-03	15.9				9

	SLD:ok	3.48e-05		-6.255e-06	1.796e-01		8.022e-05		0.4				21
		1.01e-03		8.129e-06	8.012e-03		8.042e-05		15.9				25
88	SLV:ok	1.43e-03	0.09	-8.583e-06	7.976e-03	5.982e-03	8.036e-05	1.201e-03	16.0	1101.3	0.0	0.0	9,17
		4.03e-05		6.082e-06	2.013e-01	1.510e-01	8.021e-05	1.201e-03	0.4				6
	SLD:ok	1.03e-03		-8.192e-06	7.976e-03		8.037e-05		16.0				25
		1.54e-05		6.148e-06	3.985e-01		8.028e-05		0.2				22
90	SLV:ok	5.00e-03	0.07	-4.281e-05	6.280e-03	8.555e-03	8.437e-05	1.102e-03	25.0	2338.5	0.0	0.0	11,9
		5.82e-04		-3.650e-06	8.369e-03	6.277e-03	8.411e-05	1.108e-03	14.1				16
	SLD:ok	4.26e-03		-2.677e-05	6.278e-03		8.427e-05		25.0				27
		4.00e-04		-3.615e-06	9.037e-03		8.412e-05		12.5				32
100	SLV:ok	1.60e-03	0.08	-9.569e-06	7.992e-03	5.994e-03	8.038e-05	1.201e-03	15.9	1227.8	0.0	0.0	11,11
		1.79e-05		7.333e-06	5.465e-01	4.099e-01	8.029e-05	1.201e-03	0.1				6
	SLD:ok	1.16e-03		-9.292e-06	7.991e-03		8.039e-05		15.9				27
		9.61e-06		7.319e-06	7.620e-01		8.034e-05		0.1				22
157	SLV:ok	7.10e-03	0.07	-5.219e-05	6.496e-03	7.351e-03	1.150e-04	1.301e-03	20.4	1686.3	0.0	0.0	11,11
		0.0		0.0	6.493e-03	7.372e-03	1.149e-04	1.307e-03	20.4				20
	SLD:ok	6.83e-03		-4.438e-05	6.495e-03		1.150e-04		20.4				27
		0.0		0.0	6.494e-03		1.149e-04		20.4				36
172	SLV:ok	2.54e-06	0.11	0.0	5.962e-03	1.961e-02	8.428e-05	1.104e-03	96.1	-3400.9	0.0	0.0	5,12
		8.59e-03		1.680e-04	5.968e-03	1.957e-02	8.439e-05	1.101e-03	96.1				10
	SLD:ok	2.15e-03		1.193e-05	5.559e-03		8.418e-05		72.4				25
		0.02		1.244e-04	5.965e-03		8.434e-05		96.1				26
173	SLV:ok	4.55e-03	0.08	9.315e-05	6.133e-03	2.048e-02	8.402e-05	1.111e-03	105.1	-2379.3	0.0	0.0	12,12
		1.74e-03		2.032e-05	5.673e-03	1.169e-02	8.406e-05	1.110e-03	34.6				10
	SLD:ok	9.74e-03		6.022e-05	6.184e-03		8.407e-05		107.4				28
		2.16e-03		1.247e-05	5.773e-03		8.410e-05		32.2				26
174	SLV:ok	9.00e-03	0.10	-2.296e-04	8.364e-03	2.551e-02	1.175e-04	1.233e-03	116.2	-2253.9	0.0	0.0	15,16
		0.01		2.563e-04	8.324e-03	2.547e-02	1.175e-04	1.237e-03	115.2				16
	SLD:ok	0.02		-1.432e-04	7.711e-03		1.175e-04		97.0				31
		0.02		1.819e-04	7.916e-03		1.175e-04		103.3				32
175	SLV:ok	2.97e-03	0.07	6.641e-05	7.137e-03	2.234e-02	1.148e-04	1.310e-03	96.3	-1506.4	0.0	0.0	11,12
		5.42e-03		1.131e-04	6.815e-03	2.087e-02	1.152e-04	1.287e-03	85.4				12
	SLD:ok	6.88e-03		4.476e-05	6.504e-03		1.149e-04		75.2				27
		0.01		8.160e-05	6.494e-03		1.152e-04		74.5				28
182	SLV:ok	9.25e-03	0.08	-6.164e-05	6.606e-03	6.668e-03	1.152e-04	1.288e-03	19.4	1777.0	0.0	0.0	11,11
		4.41e-03		-2.963e-05	6.599e-03	6.718e-03	1.149e-04	1.307e-03	19.4				12
	SLD:ok	6.83e-03		-4.514e-05	6.605e-03		1.151e-04		19.4				27
		2.69e-03		-1.777e-05	6.601e-03		1.149e-04		19.4				28
183	SLV:ok	3.19e-03	0.06	8.316e-05	8.593e-03	2.603e-02	1.151e-04	1.294e-03	138.7	1242.8	0.0	0.0	12,11
		2.91e-03		-6.299e-05	6.923e-03	2.163e-02	1.148e-04	1.309e-03	89.5				11
	SLD:ok	7.01e-03		6.068e-05	8.654e-03		1.151e-04		140.6				28
		8.21e-03		-5.947e-05	7.246e-03		1.149e-04		99.6				27
184	SLV:ok	3.48e-03	0.06	-6.505e-05	6.232e-03	1.870e-02	1.149e-04	1.305e-03	64.9	1371.7	0.0	0.0	11,11
		2.61e-03		-5.219e-05	6.517e-03	2.002e-02	1.149e-04	1.304e-03	75.7				11
	SLD:ok	7.77e-03		-4.718e-05	6.070e-03		1.149e-04		57.7				27
		7.56e-03		-5.082e-05	6.726e-03		1.150e-04		82.9				27
185	SLV:ok	7.84e-03	0.07	2.064e-04	8.649e-03	2.634e-02	1.150e-04	1.302e-03	140.6	1528.0	0.0	0.0	12,11
		3.98e-03		-1.005e-04	8.257e-03	2.523e-02	1.151e-04	1.296e-03	129.2				16
	SLD:ok	9.01e-03		-5.543e-05	6.151e-03		1.150e-04		61.3				27
		0.02		-1.473e-04	8.652e-03		1.150e-04		140.6				28
186	SLV:ok	5.75e-03	0.08	-7.872e-05	5.846e-03	1.369e-02	1.149e-04	1.306e-03	36.4	1692.6	0.0	0.0	11,11
		1.33e-03		-1.740e-05	5.866e-03	1.309e-02	1.150e-04	1.301e-03	34.3				12
	SLD:ok	0.01		-6.256e-05	5.846e-03		1.149e-04		36.4				27
		9.63e-04		-8.636e-06	8.970e-03		1.150e-04		10.2				28
187	SLV:ok	5.21e-03	0.21	-1.779e-04	1.024e-02	3.412e-02	8.382e-05	1.117e-03	258.0	-3217.0	0.0	0.0	17,18
		0.01		3.247e-04	7.608e-03	2.745e-02	8.334e-05	1.137e-03	158.1				18
	SLD:ok	0.01		-1.330e-04	1.023e-02		8.372e-05		258.0				33
		0.03		2.685e-04	7.842e-03		8.343e-05		167.3				34
199	SLV:ok	9.20e-03	0.10	-2.372e-04	8.475e-03	2.580e-02	1.176e-04	1.232e-03	119.4	-2211.9	0.0	0.0	15,16
		0.01		3.185e-04	9.029e-03	2.731e-02	1.175e-04	1.234e-03	135.0				16
	SLD:ok	0.02		-1.631e-04	7.991e-03		1.175e-04		105.4				31
		0.03		2.291e-04	8.558e-03		1.175e-04		121.8				32
200	SLV:ok	0.01	0.12	-3.782e-04	8.978e-03	2.683e-02	1.178e-04	1.219e-03	133.1	-2650.2	0.0	0.0	13,16
		0.02		4.430e-04	9.311e-03	2.804e-02	1.175e-04	1.235e-03	142.9				16
	SLD:ok	0.04		-3.036e-04	8.567e-03		1.176e-04		121.9				31
		0.04		3.576e-04	8.861e-03		1.175e-04		130.3				32
201	SLV:ok	0.02	0.12	-4.738e-04	9.340e-03	2.790e-02	1.177e-04	1.226e-03	143.3	2768.0	0.0	0.0	13,15
		0.01		3.330e-04	8.680e-03	2.624e-02	1.177e-04	1.227e-03	125.0				16
	SLD:ok	0.04		-3.882e-04	8.925e-03		1.175e-04		132.1				31
		0.03		2.503e-04	8.183e-03		1.176e-04		110.9				32
Trave	ver. (d)	0.04	ver. (f)	0.21									

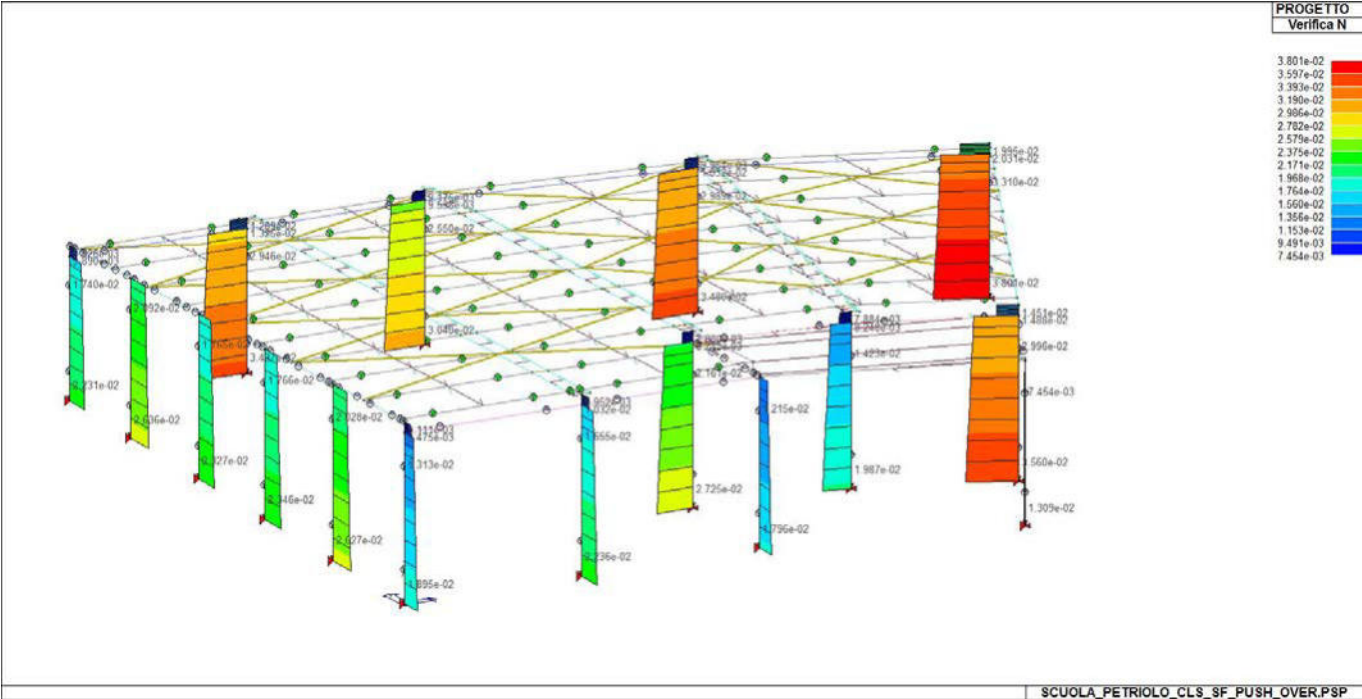
Trave ver. (d) ver. (f)
0.04 0.21



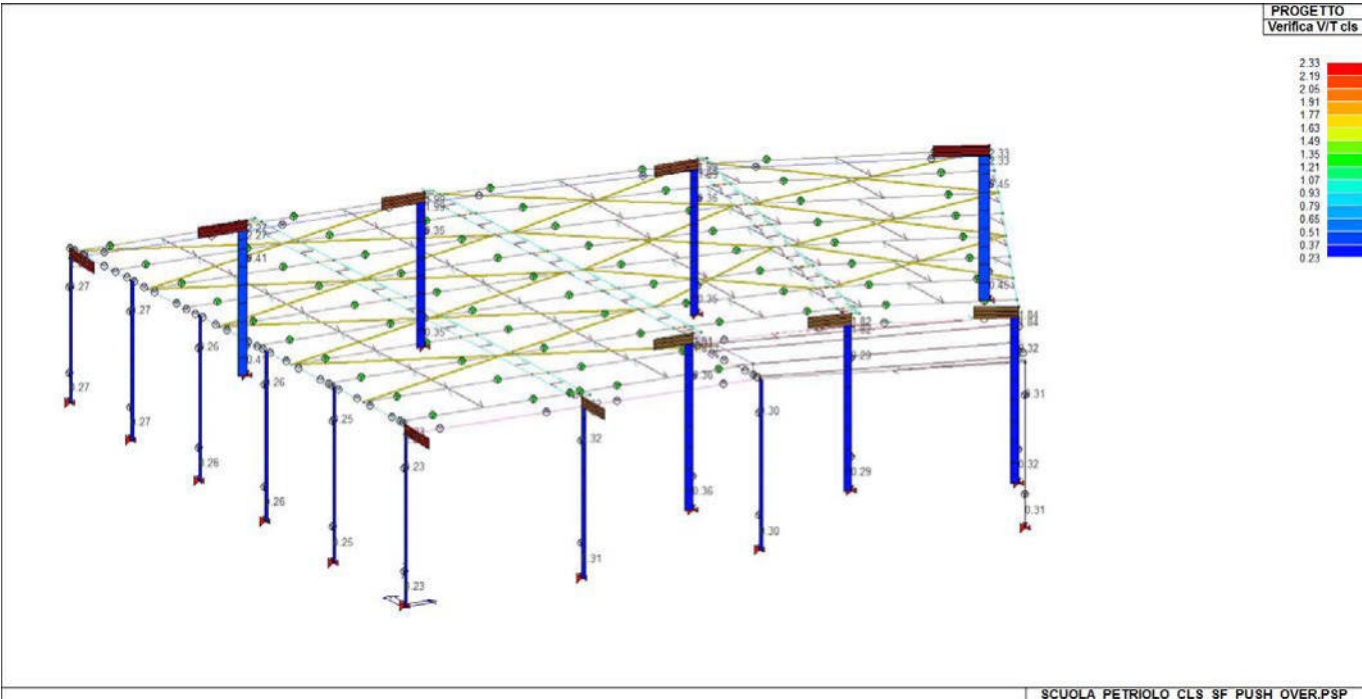
71_PRO_CA_PIL_STAB



71_PRO_CA_PIL_VER_NM

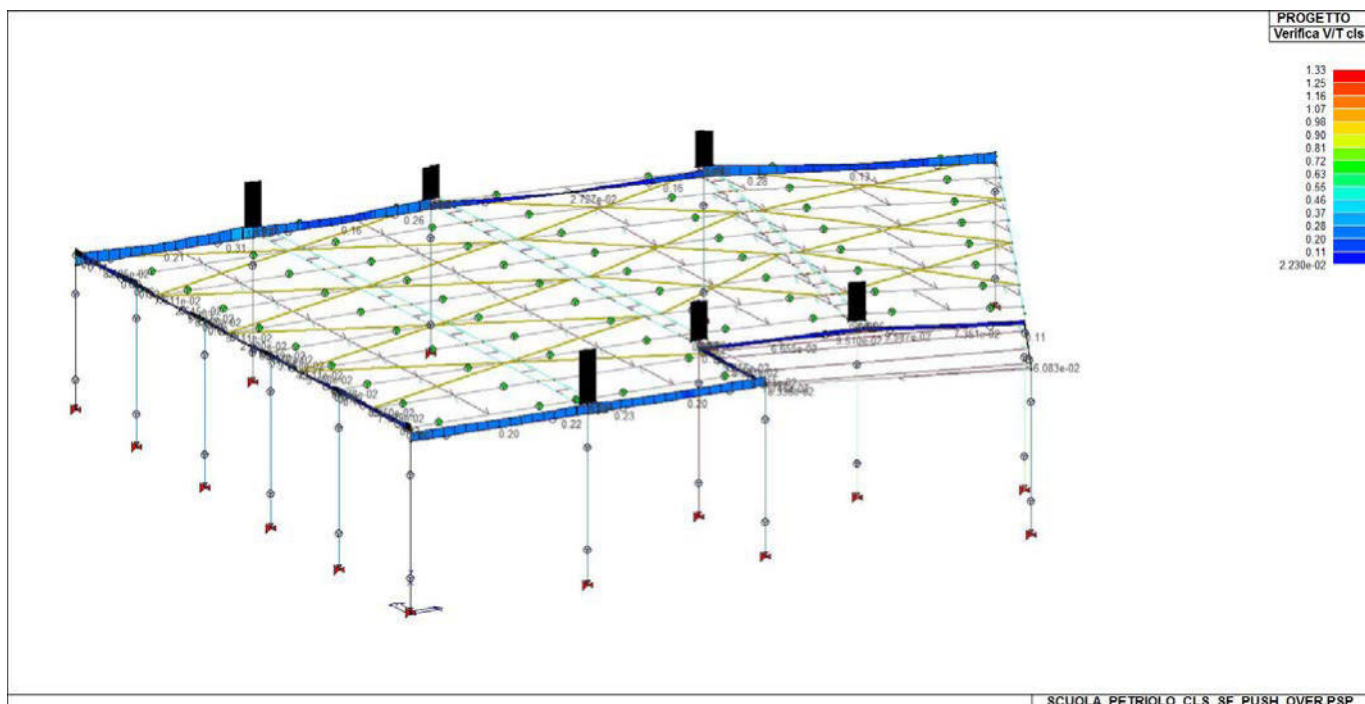


71_PRO_CA_PIL_VER_NSIS

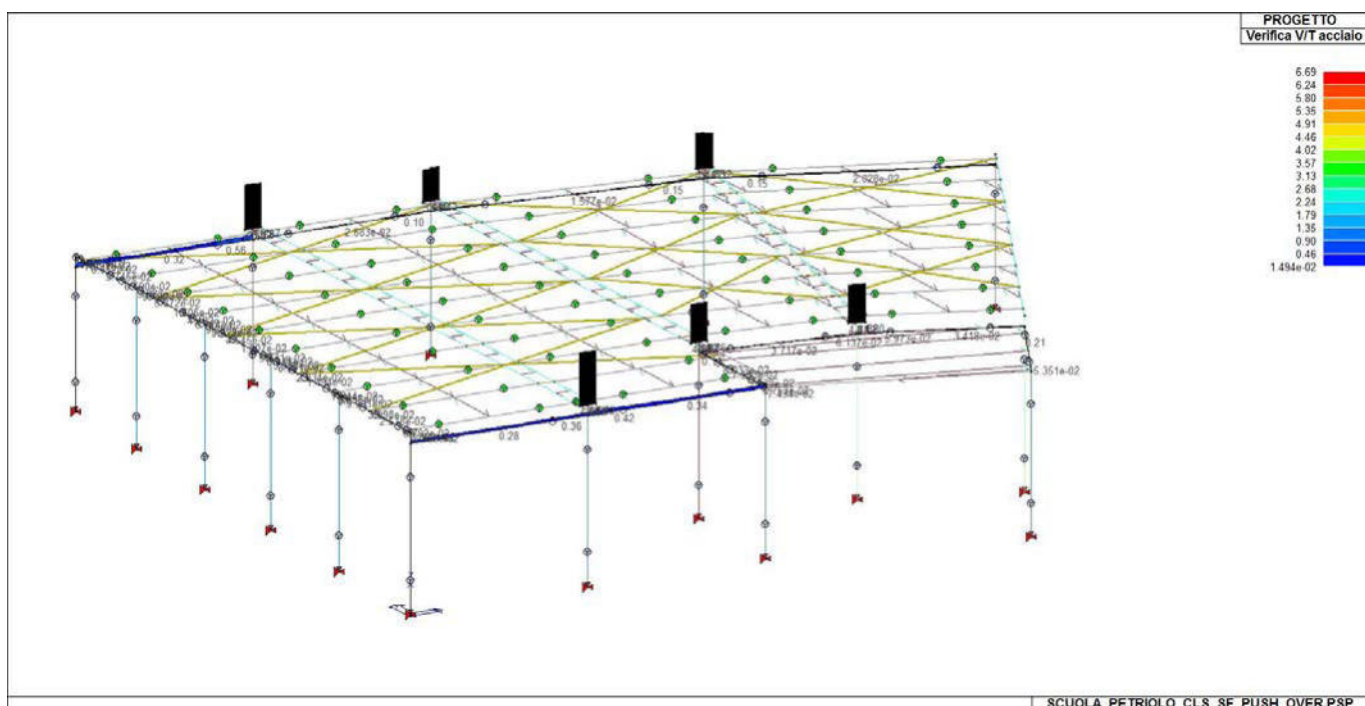


71_PRO_CA_PIL_VER_VRCD

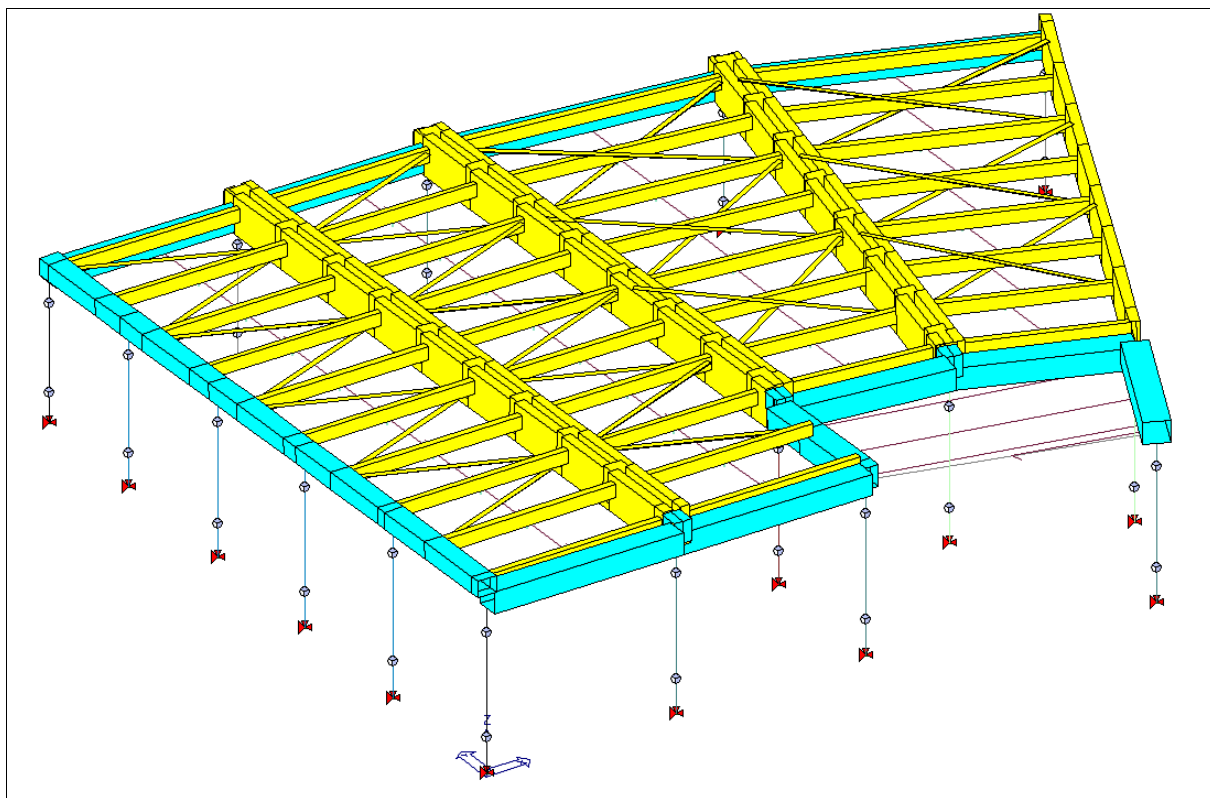
216



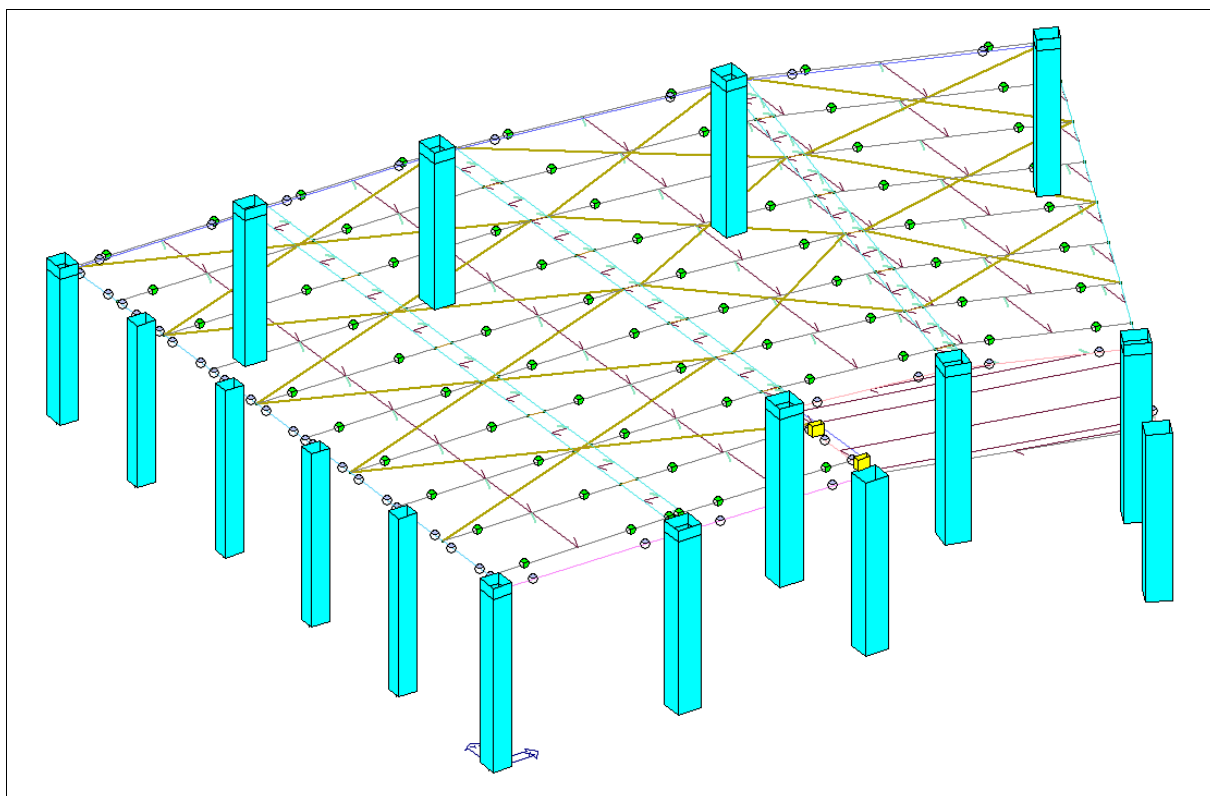
71_PRO_CA_TRV_VER_VRCD



71_PRO_CA_TRV_VER_VRSD

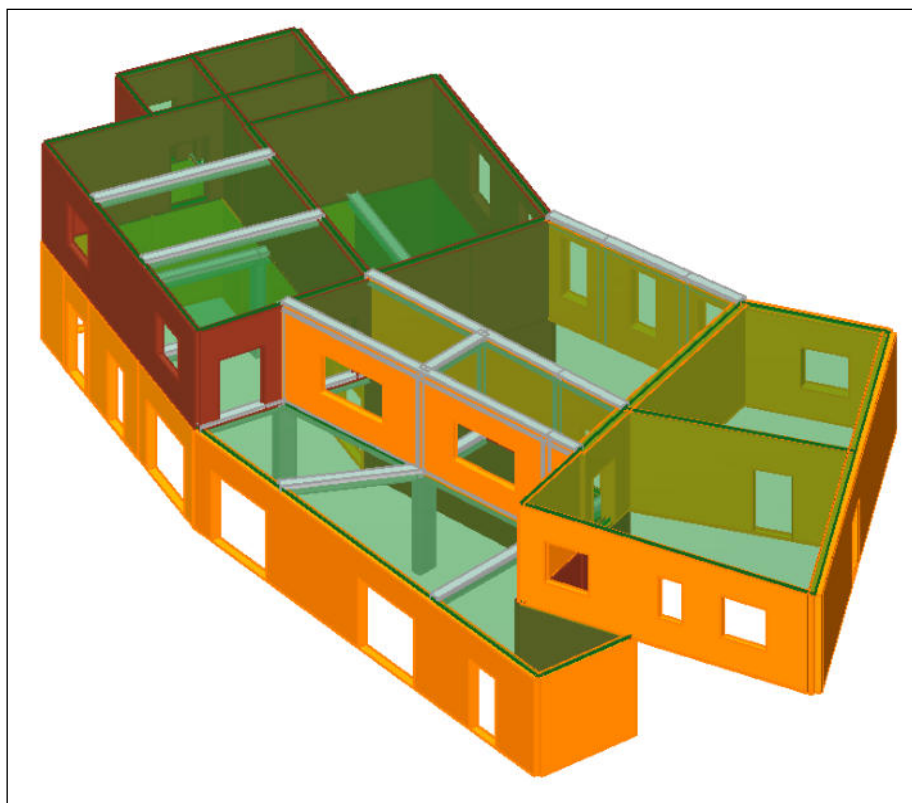


Verifica Travi in c.a.

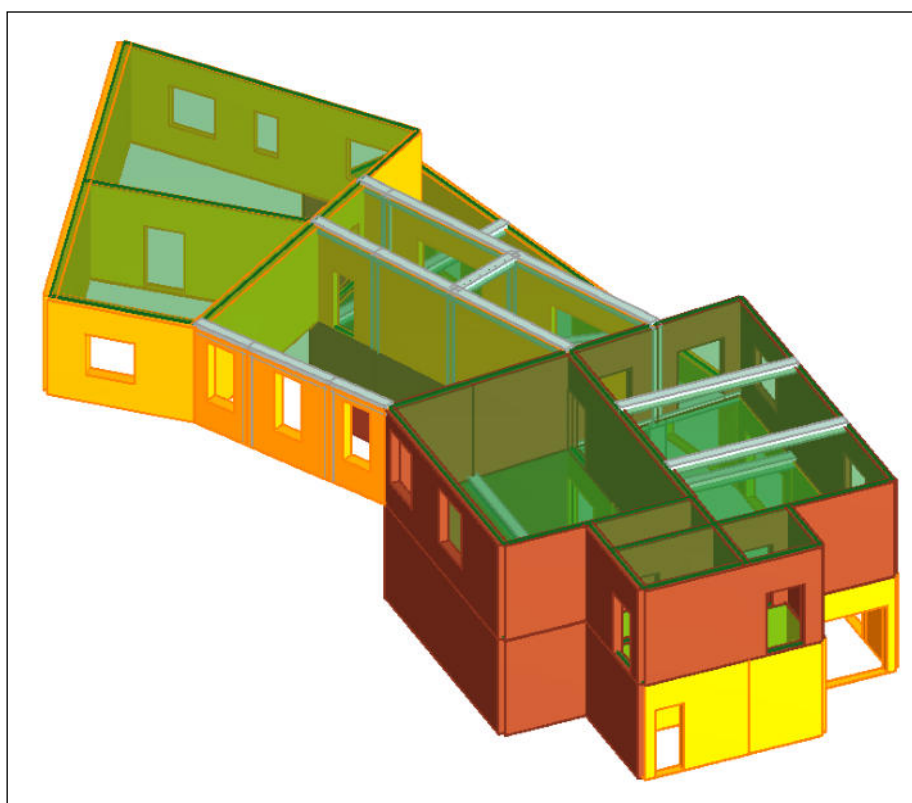


Verifica Pilastri in c.a.

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Vista tridimensionale del modello di calcolo lato Via Regina Margherita.



Vista tridimensionale del modello di calcolo lato Via del Pino.

Norme di riferimento

Sono stati recepiti, per le analisi di cui in seguito, i principi e le regole riportate nelle normative seguenti:

- Decreto Ministeriale 17 gennaio 2018 - "Norme tecniche per le Costruzioni"
- Circolare applicativa n°7 del 21 gennaio 2019

Azione sismica

Per la definizione dell'azione sismica si fa riferimento a:

- Categoria di sottosuolo: A
- Categoria topografica: T1
- Longitudine: 13.4653
- Latitudine: 43.2222
- Vita nominale: Opere ordinarie VN $\geq$ 50 anni
- Classe d'uso III - Edifici con grandi affollamenti, infrastrutture importanti

Descrizione del modello

Materiali

Comportamento meccanico della muratura

Le proprietà meccaniche del materiale muratura sono definite in modo da individuarne al meglio il comportamento in campo non lineare.

Le caratteristiche principali sono:

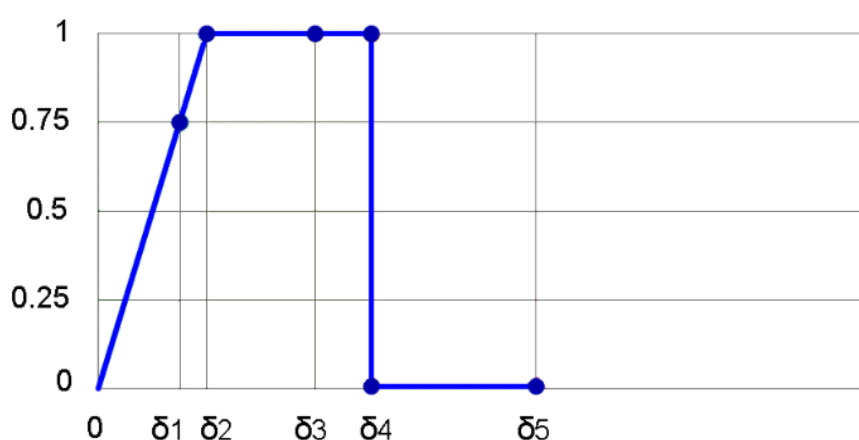
- Rigidezza iniziale secondo le caratteristiche elastiche (fessurate) del materiale;
- Redistribuzione delle sollecitazioni interne all'elemento tali da garantire l'equilibrio;
- Settaggio dello stato di danno secondo i parametri globali e locali;
- Degradazione della rigidezza nel ramo plastico;

- Controllo di duttilità mediante la definizione di drift massimo (δ_u) differenziato secondo quanto previsto nelle normative vigenti a seconda del meccanismo di danneggiamento agente sul pannello
- Eliminazione dell'elemento, al raggiungimento delle condizioni limite senza interruzione dell'analisi.

Il comportamento non lineare si attiva quando un valore di forza raggiunge il suo massimo valore definito come il minimo fra i criteri di resistenza pressoflessione e taglio.

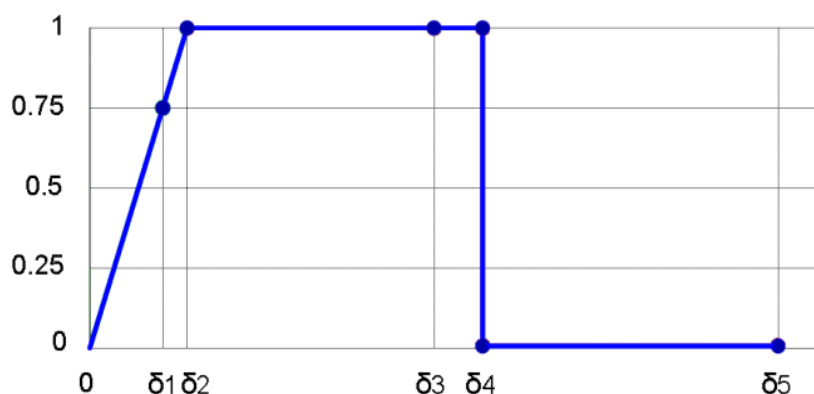
Il comportamento dei maschi murari associati ai meccanismi di taglio e pressoflessione può essere descritto attraverso diversi tratti che rappresentano i progressivi livelli di danno.

Maschio con meccanismo a taglio



Il comportamento del maschio murario a taglio si può descrivere attraverso i seguenti tratti, rappresentativi dei progressivi livelli di danno relativi al diagramma precedente:

$0 - \delta_1$	elasticità
$\delta_1 - \delta_2$	incipiente di plasticità
$\delta_2 - \delta_3$	plastico per taglio
$\delta_3 - \delta_4$	incipiente rottura per taglio
$\delta_4 - \delta_5$	rottura per taglio
$\delta_5 - \infty$	crisi grave

Maschio con meccanismo a pressoflessione

Il comportamento del maschio murario pressoflessione, invece, si può descrivere attraverso i seguenti tratti:

0 - δ_1	elasticità
δ_1 - δ_2	incipiente di plasticità
δ_2 - δ_3	plastico per pressoflessione
δ_3 - δ_4	incipiente rottura per pressoflessione
δ_4 - δ_5	rottura per pressoflessione
δ_5 - ∞	crisi grave

Alcuni tra questi livelli di rottura sono necessari per descrivere con maggiore cura il progredire della crisi permettendo una più accurata previsione degli interventi e del livello di degrado della muratura:

- Incipiente plasticità: Quando un elemento si trova ancora in campo elastico ma è prossimo alla plasticità
- Incipiente rottura: Quando un elemento è in campo plastico ma è prossimo alla rottura
- Crisi grave: Quando in seguito alla rottura dell'elemento le deformazioni diventano talmente significative da poter generare un crollo locale.

Il software mette a disposizione tre categorie di legame:

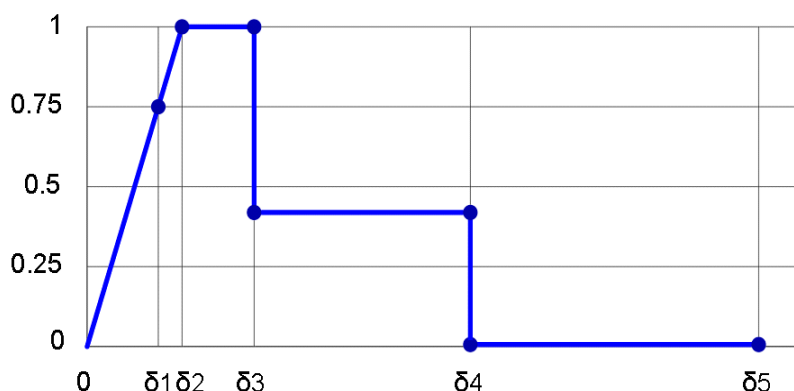
- Con degrado di resistenza a un valore residuo (Legame multilineare)
- Con resistenza pari al valore residuo (Legame bilineare)

- Priva di resistenza residua

Tra queste le categorie di legame utilizzate all'interno del progetto in esame sono:

- Con degrado di resistenza a un valore residuo (Legame multilineare)

Con degrado di resistenza a un valore residuo (Legame multilineare)



Questo tipo di legame è definito nella circolare al §C8.7.1.3.1 assumendo:

δ_1 : $0.75 * \delta_2$

δ_2 : deformazione in corrispondenza del limite elastico definito dalla rigidezza e resistenza limite

δ_3 : 0.005

δ_4 : 0.015

δ_5 : $2 * \delta_4$ Questa deformazione rappresenta lo stato di “crisi grave” non direttamente richiesta nella normativa ma utile come avviso per il progettista.

Nome	Tipo	Colore	Descrizione
Muratura	Muratura		
C8/10	Calcestruzzo		
C16/20	Calcestruzzo		
C25/30	Calcestruzzo		
B450	Acciaio armatura		NTC08
Muratura Piena con forati verticali	Muratura		
Muratura priva di Vuoti	Muratura		

Muratura in mattoni pieni	Muratura		
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Muratura

Nome	Condizione del materiale	Tipo legame	Peso specifico [kN/m ³]
Muratura	Nuovo	Muratura regolare nuova (Mohr/Columb)	12
Muratura Piena con forati verticali	Esistente	Muratura irregolare (Turnsek/Cacovic)	15
Muratura priva di Vuoti	Esistente	Muratura irregolare (Turnsek/Cacovic)	18
Muratura in mattoni pieni	Esistente	Muratura irregolare (Turnsek/Cacovic)	18

Nome	E [N/mm ²]	Eh [N/mm ²]	G [N/mm ²]	f _m [N/cm ²]	f _{hm} [N/cm ²]	FC	γ _m
Muratura	5.300,00	5.300,00	2.120,00	757,00	378,50	1,00	3,00
Muratura Piena con forati verticali	4.550,00	4.550,00	1.137,50	541,67	487,50	1,20	3,00
Muratura priva di Vuoti	1.500,00	1.500,00	500,00	287,50	258,75	1,20	3,00
Muratura in mattoni pieni	1.500,00	1.500,00	500,00	287,50	258,75	1,20	3,00

Nome	τ [N/cm ²]	f _b [N/mm ²]	f _{v0} [N/mm ²]	Φ	μ	f _{bt} [N/mm ²]	Indice ingranamento	Indice coesione
Muratura	28,57	10,00	28,57	0,00	0,00	0,0	1,00	1,00
Muratura Piena con forati verticali	10,42	8,00	28,00	0,00	0,00	0,0	1,00	1,00
Muratura priva di Vuoti	7,50	10,00	20,00	0,00	0,00	0,0	1,00	1,00
Muratura in mattoni pieni	7,50	10,00	20,00	0,00	0,00	0,0	1,00	1,00

Calcestruzzo

Nome	E [N/mm ²]	G [N/mm ²]	Peso specifico [kN/m ³]	f _{cm} [N/mm ²]	f _{ck} [N/mm ²]
C8/10	25.331,00	10.555,00	25	16,0	8,00
C16/20	28.608,00	11.920,00	25	24,0	16,00
C25/30	31.476,00	13.115,00	25	33,0	25,00

Acciaio armatura

Nome	E [N/mm ²]	G [N/mm ²]	Peso specifico [kN/m ³]	f _{ym} [N/mm ²]	f _{yk} [N/mm ²]
B450	206.000,00	79.231,00	79	484,0	450,00

Geometria del modello

La modellazione dell'edificio viene realizzata mediante l'inserimento di pareti che vengono discretizzate in macroelementi, rappresentativi di maschi murari e fasce di piano deformabili; i nodi rigidi sono indicati nelle porzioni di muratura che tipicamente sono meno soggette al danneggiamento sismico. Solitamente i maschi e le fasce sono contigui alle aperture, i nodi rigidi rappresentano elementi di collegamento tra maschi e fasce. La concezione matematica che si nasconde nell'impiego di tale elemento, permette di riconoscere il meccanismo di danno, a taglio nella sua parte centrale o a pressoflessione sui bordi dell'elemento in modo da percepire la dinamica del danneggiamento così come si presenta effettivamente nella realtà.

I nodi del modello, sono nodi tridimensionali a 5 gradi di libertà (le tre componenti di spostamento nel sistema di riferimento globale e le rotazioni intorno agli assi X e Y) o nodi bidimensionali a 3 gradi di libertà (due traslazioni e la rotazione nel piano della parete). Quelli tridimensionali vengono usati per permettere il trasferimento delle azioni, da un primo muro a un secondo disposto trasversalmente rispetto al primo. I nodi di tipo bidimensionale hanno gradi di libertà nel solo piano della parete permettendo il trasferimento degli stati di sollecitazione tra i vari punti della parete.

Gli orizzontamenti, sono modellati con elementi solaio a tre nodi connessi ai nodi tridimensionali, sono caricabili perpendicolarmente al loro piano dai carichi accidentali e permanenti; le azioni sismiche caricano il solaio lungo la direzione del piano medio. Per questo l'elemento finito solaio viene definito con una rigidezza assiale, ma nessuna rigidezza flessionale, in quanto il comportamento meccanico principale che si intende sondare è quello sotto carico orizzontale dovuto al sisma.

Elementi di struttura

Livello 1

Pannello murario

N.	Parete	Materiale	Rinforzo	Quota [cm]	Altezza [cm]	Spessore [cm]
1	1	Muratura Piena con forati verticali	-	350	350	30,0
89	2	Muratura Piena con forati verticali	-	350	350	30,0
91	2	Muratura Piena con forati verticali	-	350	350	30,0
92	2	Muratura Piena con forati verticali	-	350	350	30,0
93	2	Muratura Piena con forati verticali	-	350	350	30,0
72	3	Muratura Piena con forati verticali	-	350	350	30,0

86	3	Muratura Piena con forati verticali	-	350	350	30,0
87	3	Muratura Piena con forati verticali	-	350	350	30,0
99	4	Muratura in mattoni pieni	-	350	350	30,0
76	5	Muratura Piena con forati verticali	-	350	350	30,0
77	5	Muratura Piena con forati verticali	-	350	350	30,0
11	6	Muratura Piena con forati verticali	-	350	350	30,0
74	7	Muratura Piena con forati verticali	-	350	350	30,0
79	7	Muratura Piena con forati verticali	-	350	350	30,0
80	7	Muratura Piena con forati verticali	-	350	350	30,0
81	7	Muratura Piena con forati verticali	-	350	350	30,0
107	8	Muratura in mattoni pieni	-	350	350	30,0
108	8	Muratura in mattoni pieni	-	350	350	30,0
63	10	Muratura in mattoni pieni	-	350	350	30,0
21	11	Muratura Piena con forati verticali	-	350	350	30,0
29	15	Muratura in mattoni pieni	-	350	350	30,0
84	19	Muratura in mattoni pieni	-	350	350	30,0
66	25	Muratura in mattoni pieni	-	350	350	30,0
67	25	Muratura in mattoni pieni	-	350	350	30,0
203	26	Muratura in mattoni pieni	-	350	350	30,0
204	26	Muratura Piena con forati verticali	-	350	350	30,0

Pannello + Cordolo C.A. (1)

N.	Parete	Materiale pannello	Rinforzo	Quota pannello [cm]	Altezza [cm]	Spessore [cm]	Materiale calcestruzzo	Materiale acciaio	Quota cordolo [cm]	Base sezione [cm]	Altezza sezione [cm]
75	7	Muratura Piena con forati verticali	-	350	350,0	30,0	C25/30	B450	350	20,0	20,0

Pannello + Cordolo C.A. (2)

N.	Parete	Area [cm2]	J [cm4]	Af intrad. [cm2]	Af estrad. [cm2]	N. barre intrad.	N. barre Estrad.	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm2]	Porzione deformabile
75	7	400,00	13.333,33	2,26	2,26	2	2	2,0	20	10,05	0,00

Trave C.A. (1)

N.	Parete	Materiale calcestruzzo	Materiale acciaio	Quota I [cm]	Quota J [cm]	Base sezione [cm]	Altezza sezione [cm]	J [cm4]
102	4	C8/10	B450	350	350	30,0	30,0	67.500,00
103	4	C8/10	B450	350	350	30,0	30,0	67.500,00
96	17	C25/30	B450	350	350	30,0	34,0	98.260,00
97	17	C25/30	B450	350	350	30,0	34,0	98.260,00
94	18	C25/30	B450	350	350	30,0	34,0	98.260,00
95	18	C25/30	B450	350	350	30,0	34,0	98.260,00
83	19	C25/30	B450	350	350	30,0	34,0	98.260,00

85	19	C25/30	B450	350	350	30,0	34,0	98.260,00
51	20	C8/10	B450	350	350	30,0	30,0	67.500,00
56	20	C8/10	B450	350	350	30,0	30,0	67.500,00
194	20	C8/10	B450	350	350	30,0	30,0	67.500,00
53	21	C25/30	B450	350	350	30,0	34,0	98.260,00
54	21	C25/30	B450	350	350	30,0	34,0	98.260,00
43	22	C25/30	B450	350	350	30,0	34,0	98.260,00
45	23	C25/30	B450	350	350	30,0	34,0	98.260,00

Trave C.A. (2)

N.	Parete	Af intradosso [cm2]	Af estradosso [cm2]	N. barre intradosso	N. barre estradosso	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm2]
102	4	4,02	4,02	2	2	2,0	20	10,05
103	4	4,02	4,02	2	2	2,0	20	10,05
96	17	2,26	2,26	2	2	2,0	20	10,05
97	17	2,26	2,26	2	2	2,0	20	10,05
94	18	2,26	2,26	2	2	2,0	20	10,05
95	18	2,26	2,26	2	2	2,0	20	10,05
83	19	2,26	2,26	2	2	2,0	20	10,05
85	19	2,26	2,26	2	2	2,0	20	10,05
51	20	4,02	4,02	2	2	2,0	20	10,05
56	20	4,02	4,02	2	2	2,0	20	10,05
194	20	4,02	4,02	2	2	2,0	20	10,05
53	21	2,26	2,26	2	2	2,0	20	10,05
54	21	2,26	2,26	2	2	2,0	20	10,05
43	22	2,26	2,26	2	2	2,0	20	10,05
45	23	2,26	2,26	2	2	2,0	20	10,05

Pilastro C.A. (1)

N.	Materiale calcestruzzo	Materiale acciaio	Quota [cm]	Base sezione [cm]	Altezza sezione [cm]	Area [cm2]	Angolo [°]	Altezza [cm]
55	C25/30	B450	350	30,0	60,0	1.800,00	0	350,0
58	C25/30	B450	350	30,0	60,0	1.800,00	0	350,0
104	C25/30	B450	350	30,0	30,0	900,00	340	350,0
105	C25/30	B450	350	30,0	30,0	900,00	340	350,0
106	C25/30	B450	350	30,0	30,0	900,00	340	350,0
190	C25/30	B450	350	30,0	60,0	1.800,00	350	350,0

Pilastro C.A. (2)

N.	Af lato b [cm2]	Af lato h [cm2]	N. barre lato b	N. barre lato h	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm2]
55	3,39	6,03	3	3	2,0	20	10,05
58	3,39	6,03	3	3	2,0	20	10,05
104	2,26	2,26	2	2	2,0	10	10,05
105	2,26	2,26	2	2	2,0	10	10,05
106	2,26	2,26	2	2	2,0	10	10,05
190	3,39	6,03	3	3	2,0	20	10,05

Solaio

N.	Quota [cm]	Spessore [cm]	G [N/mm2]	Ex [N/mm2]	Ey [N/mm2]	Scarico masse	Tipo
1	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento

2	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
3	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
4	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
5	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
6	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
7	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
8	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
10	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
11	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
12	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
26	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
27	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
28	350	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento

Livello 2**Pannello murario**

N.	Parete	Materiale	Rinforzo	Quota [cm]	Altezza [cm]	Spessore [cm]
110	2	Muratura	-	700	350	20,0
111	3	Muratura	-	700	350	20,0
181	4	Muratura priva di Vuoti	-	700	350	30,0
113	5	Muratura	-	700	350	30,0
114	6	Muratura	-	700	350	20,0
184	7	Muratura priva di Vuoti	-	700	350	30,0
185	7	Muratura	-	700	350	20,0
117	10	Muratura Piena con forati verticali	-	700	350	20,0
119	12	Muratura Piena con forati verticali	-	700	350	40,0
120	13	Muratura Piena con forati verticali	-	700	350	40,0
122	15	Muratura priva di Vuoti	-	700	350	30,0
192	19	Muratura	-	700	350	20,0
199	19	Muratura priva di Vuoti	-	700	350	30,0
201	19	Muratura priva di Vuoti	-	700	350	30,0
202	19	Muratura	-	700	350	30,0
131	24	Muratura Piena con forati verticali	-	700	350	20,0
196	25	Muratura Piena con forati verticali	-	700	350	40,0
197	25	Muratura Piena con forati verticali	-	700	350	20,0
198	25	Muratura Piena con forati verticali	-	700	350	40,0
188	26	Muratura	-	700	350	20,0

Pannello + Cordolo C.A. (1)

N.	Parete	Materiale pannello	Rinforzo	Quota pannello [cm]	Altezza [cm]	Spessore [cm]	Materiale calcestruzzo	Materiale acciaio	Quota cordolo [cm]	Base sezione [cm]	Altezza sezione [cm]
162	8	Muratura Piena con forati verticali	-	700	350,0	25,0	C25/30	B450	700	30,0	30,0
163	8	Muratura	-	700	350,0	25,0	C25/30	B450	700	30,0	30,0

		Piena con forati verticali									
164	8	Muratura Piena con forati verticali	-	700	350,0	25,0	C25/30	B450	700	30,0	30,0
175	14	Muratura Piena con forati verticali	-	700	350,0	40,0	C25/30	B450	700	30,0	30,0
176	14	Muratura Piena con forati verticali	-	700	350,0	40,0	C25/30	B450	700	30,0	30,0
177	14	Muratura Piena con forati verticali	-	700	350,0	40,0	C25/30	B450	700	30,0	30,0
157	20	Muratura Piena con forati verticali	-	700	350,0	25,0	C25/30	B450	700	30,0	30,0
166	20	Muratura Piena con forati verticali	-	700	350,0	25,0	C25/30	B450	700	30,0	30,0
193	20	Muratura Piena con forati verticali	-	700	350,0	25,0	C25/30	B450	700	30,0	30,0

Pannello + Cordolo C.A. (2)

N.	Parete	Area [cm ²]	J [cm ⁴]	Af intrad. [cm ²]	Af estrad. [cm ²]	N. barre intrad.	N. barre Estrad.	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm ²]	Porzione deformabile
162	8	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00
163	8	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00
164	8	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00
175	14	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00
176	14	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00
177	14	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00
157	20	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00
166	20	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00
193	20	900,00	67.500,00	4,02	4,02	2	2	2,0	20	10,05	0,00

Trave C.A. (1)

N.	Parete	Materiale calcestruzzo	Materiale acciaio	Quota I [cm]	Quota J [cm]	Base sezione [cm]	Altezza sezione [cm]	J [cm ⁴]
124	17	C25/30	B450	700	700	30,0	30,0	67.500,00
125	18	C25/30	B450	700	700	30,0	30,0	67.500,00
130	23	C25/30	B450	700	700	30,0	30,0	67.500,00

Trave C.A. (2)

N.	Parete	Af intradosso [cm ²]	Af estradosso [cm ²]	N. barre intradosso	N. barre estradosso	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm ²]
124	17	4,02	4,02	2	2	2,0	20	10,05
125	18	4,02	4,02	2	2	2,0	20	10,05
130	23	4,02	4,02	2	2	2,0	20	10,05

Pilastro C.A. (1)

N.	Materiale calcestruzzo	Materiale acciaio	Quota [cm]	Base sezione [cm]	Altezza sezione [cm]	Area [cm ²]	Angolo [°]	Altezza [cm]
165	C16/20	B450	700	30,0	30,0	900,00	0	350,0
168	C16/20	B450	700	30,0	30,0	900,00	0	350,0
169	C16/20	B450	700	30,0	30,0	900,00	0	350,0
170	C16/20	B450	700	30,0	30,0	900,00	0	350,0
178	C16/20	B450	700	30,0	30,0	900,00	0	350,0
179	C16/20	B450	700	30,0	30,0	900,00	0	350,0
205	C16/20	B450	700	30,0	30,0	900,00	350	350,0

Pilastro C.A. (2)

N.	Af lato b [cm ²]	Af lato h [cm ²]	N. barre lato b	N. barre lato h	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm ²]
165	4,02	4,02	2	2	2,0	36	10,05
168	4,02	4,02	2	2	2,0	36	10,05
169	4,02	4,02	2	2	2,0	36	10,05
170	4,02	4,02	2	2	2,0	36	10,05
178	4,02	4,02	2	2	2,0	36	10,05
179	4,02	4,02	2	2	2,0	36	10,05
205	4,02	4,02	2	2	2,0	36	10,05

Solaio

N.	Quota [cm]	Spessore [cm]	G [N/mm ²]	Ex [N/mm ²]	Ey [N/mm ²]	Scarico masse	Tipo
14	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
15	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
16	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
17	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
18	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
19	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
20	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
22	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
23	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
24	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
25	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento
29	700	5,0	13.125,00	60.228,00	31.500,00	Monodirezionale	Latero cemento

Telaio equivalente**Parete : 1****Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
1	-1.101	1.201	0	0
67	-615	1.139	0	0
77	104	1.048	0	0
3	483	1.000	0	0
2	-1.101	1.201	350	1

68	-615	1.139	350	1
78	104	1.048	350	1
4	483	1.000	350	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
5	Muratura Piena con forati verticali	-	30,0	263,4	250,0	436	125	67	68
6	Muratura Piena con forati verticali	-	30,0	428,5	250,0	1.042	125	77	78
4	Muratura Piena con forati verticali	-	30,0	183,9	308,3	92	154	1	2
7	Muratura Piena con forati verticali	-	30,0	81,0	308,3	1.556	154	3	4

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
1	Muratura Piena con forati verticali	-	30,0	120,0	100,0	244	300	2	68
2	Muratura Piena con forati verticali	-	30,0	260,0	100,0	697	300	68	78
3	Muratura Piena con forati verticali	-	30,0	260,0	100,0	1.386	300	78	4

Parete : 2**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
3	483	1.000	0	0
58	843	866	0	0
52	1.162	747	0	0
6	1.468	633	0	0
4	483	1.000	350	1
59	843	866	350	1
53	1.162	747	350	1
7	1.468	633	350	1
5	483	1.000	700	2
60	843	866	700	2
54	1.162	747	700	2
8	1.468	633	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
15	Muratura Piena con forati verticali	-	30,0	153,4	250,0	399	125	58	59
16	Muratura Piena con forati verticali	-	30,0	154,7	250,0	673	125	52	53
14	Muratura Piena con forati verticali	-	30,0	61,8	308,3	31	154	3	4
17	Muratura Piena con forati verticali	-	30,0	181,2	308,3	960	154	6	7
18	Muratura	-	20,0	116,8	250,0	58	525	4	5
19	Muratura	-	20,0	468,0	150,0	501	525	59	60

20	Muratura	-	20,0	166,2	250,0	968	525	7	8
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Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
8	Muratura Piena con forati verticali	-	30,0	205,0	100,0	192	300	4	59
10	Muratura Piena con forati verticali	-	30,0	135,0	100,0	810	300	53	7
9	Muratura	-	20,0	205,0	100,0	192	400	4	59
11	Muratura	-	20,0	135,0	100,0	810	400	53	7
12	Muratura	-	20,0	150,0	100,0	192	650	5	60
13	Muratura	-	20,0	150,0	100,0	810	650	54	8

Parete : 3**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
84	1.156	-203	0	0
26	1.271	104	0	0
17	1.352	323	0	0
6	1.468	633	0	0
85	1.156	-203	350	1
27	1.271	104	350	1
18	1.352	323	350	1
7	1.468	633	350	1
86	1.156	-203	700	2
28	1.271	104	700	2
19	1.352	323	700	2
8	1.468	633	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
23	Muratura Piena con forati verticali	-	30,0	587,3	308,3	294	154	26	27
24	Muratura Piena con forati verticali	-	30,0	25,2	308,3	880	154	6	7
26	Muratura	-	20,0	239,7	230,0	266	465	27	28
25	Muratura	-	20,0	26,5	302,4	13	501	85	86
27	Muratura	-	20,0	386,3	302,4	699	501	18	19

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
21	Muratura	-	20,0	120,0	120,0	87	640	86	28
22	Muratura	-	20,0	120,0	120,0	446	640	28	19

Parete : 4**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
9	247	136	0	0

93	606	2	0	0
90	1.009	-149	0	0
84	1.156	-203	0	0
11	1.364	-281	0	0
10	247	136	350	1
94	606	2	350	1
91	1.009	-149	350	1
85	1.156	-203	350	1
12	1.364	-281	350	1
92	1.009	-149	700	2
86	1.156	-203	700	2
13	1.364	-281	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
29	Muratura in mattoni pieni	-	30,0	378,7	350,0	1.003	175	84	85
30	Muratura priva di Vuoti	-	30,0	205,2	302,4	916	501	85	86
31	Muratura priva di Vuoti	-	30,0	53,5	302,4	1.165	501	12	13

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
28	Muratura priva di Vuoti	-	30,0	120,0	120,0	1.079	640	86	13

Parete : 5**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
11	1.364	-281	0	0
23	1.479	27	0	0
14	1.561	246	0	0
12	1.364	-281	350	1
24	1.479	27	350	1
15	1.561	246	350	1
13	1.364	-281	700	2
25	1.479	27	700	2
16	1.561	246	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
33	Muratura Piena con forati verticali	-	30,0	33,4	308,3	17	154	11	12
34	Muratura Piena con forati verticali	-	30,0	438,6	308,3	343	154	23	24
35	Muratura	-	30,0	385,7	302,4	193	501	24	25
36	Muratura	-	30,0	56,4	302,4	534	501	15	16

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
32	Muratura	-	30,0	120,0	120,0	446	640	25	16

Parete : 6**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
17	1.352	323	0	0
14	1.561	246	0	0
18	1.352	323	350	1
15	1.561	246	350	1
19	1.352	323	700	2
16	1.561	246	700	2

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
95	111	350	1
96	111	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
38	Muratura Piena con forati verticali	-	30,0	66,2	308,3	33	154	17	18
39	Muratura Piena con forati verticali	-	30,0	66,2	308,3	189	154	14	15
37	Muratura	-	20,0	222,3	350,0	111	525	95	96

Parete : 7**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
20	334	454	0	0
55	645	338	0	0
49	965	218	0	0
87	1.124	159	0	0
26	1.271	104	0	0
23	1.479	27	0	0
21	334	454	350	1
56	645	338	350	1
50	965	218	350	1
88	1.124	159	350	1
27	1.271	104	350	1
24	1.479	27	350	1
22	334	454	700	2
57	645	338	700	2
51	965	218	700	2
89	1.124	159	700	2
28	1.271	104	700	2
25	1.479	27	700	2

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
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97	1.111	0	0
98	1.111	350	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
44	Muratura Piena con forati verticali	-	30,0	20,2	308,3	10	154	20	21
45	Muratura Piena con forati verticali	-	30,0	799,6	308,3	600	154	49	50
43	Muratura Piena con forati verticali	-	30,0	222,3	350,0	1.111	175	97	98
46	Muratura priva di Vuoti	-	30,0	18,9	302,4	9	501	21	22
47	Muratura priva di Vuoti	-	30,0	704,4	302,4	491	501	56	57
48	Muratura	-	20,0	212,1	302,4	949	501	27	28
49	Muratura	-	20,0	46,6	302,4	1.199	501	24	25

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
40	Muratura Piena con forati verticali	-	30,0	150,0	100,0	95	300	21	56
41	Muratura priva di Vuoti	-	30,0	120,0	120,0	79	640	22	57
42	Muratura	-	20,0	120,0	120,0	1.115	640	28	25

Parete : 8**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
29	-664	414	0	0
69	-609	416	0	0
79	-119	436	0	0
20	334	454	0	0
30	-664	414	350	1
70	-609	416	350	1
99	-415	424	350	1
80	-119	436	350	1
21	334	454	350	1
31	-664	414	700	2
100	-415	424	700	2
81	-119	436	700	2
22	334	454	700	2

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
101	397	350	1
103	772	350	1
102	397	700	2
104	772	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore	Base	Altezza	Baricentro X	Baricentro Z	Nodo	Nodo
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			[cm]	[cm]	[cm]	[cm]	[cm]	sopra	sotto
51	Muratura in mattoni pieni	-	30,0	998,4	350,0	499	175	79	80
54	Muratura Piena con forati verticali	-	25,0	79,3	299,8	40	500	70	31
55	Muratura Piena con forati verticali	-	25,0	79,3	299,8	209	500	99	100
52	Muratura Piena con forati verticali	-	25,0	296,8	350,0	397	525	101	102
53	Muratura Piena con forati verticali	-	25,0	453,0	350,0	772	525	103	104

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
50	Muratura Piena con forati verticali	-	25,0	90,0	130,0	124	635	31	100

Parete : 9**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
37	-1.144	861	0	0
32	-791	963	0	0
35	-1.717	694	350	1
38	-1.144	861	350	1
33	-791	963	350	1
36	-1.717	694	700	2
34	-791	963	700	2

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
105	781	0	0
107	366	350	1
106	781	350	1
108	366	700	2
109	621	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
62	Muratura in mattoni pieni	-	30,0	367,8	350,0	781	175	105	38
63	Muratura Piena con forati verticali	-	20,0	152,6	250,0	76	525	35	36
64	Muratura Piena con forati verticali	-	20,0	126,9	150,0	366	525	107	108
65	Muratura Piena con forati verticali	-	20,0	223,7	150,0	621	525	38	109
66	Muratura Piena con forati verticali	-	20,0	81,6	250,0	924	525	33	34

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
56	Muratura Piena	-	20,0	150,0	100,0	228	400	35	107

	con forati verticali								
58	Muratura Piena con forati verticali	-	20,0	80,0	100,0	470	400	107	38
60	Muratura Piena con forati verticali	-	20,0	150,0	100,0	808	400	106	33
57	Muratura Piena con forati verticali	-	20,0	150,0	100,0	228	650	36	108
59	Muratura Piena con forati verticali	-	20,0	80,0	100,0	470	650	108	109
61	Muratura Piena con forati verticali	-	20,0	150,0	100,0	808	650	109	34

Parete : 10**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
37	-1.144	861	0	0
1	-1.101	1.201	0	0
38	-1.144	861	350	1
2	-1.101	1.201	350	1

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
110	171	0	0
111	171	350	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
67	Muratura Piena con forati verticali	-	30,0	342,7	350,0	171	175	110	111

Parete : 11**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
35	-1.717	694	350	1
82	-1.287	98	350	1
39	-927	-400	350	1
36	-1.717	694	700	2
83	-1.287	98	700	2
40	-927	-400	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
69	Muratura Piena con forati verticali	-	40,0	548,0	302,4	274	501	35	36
70	Muratura Piena con forati verticali	-	40,0	681,2	302,4	1.009	501	82	83

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
68	Muratura Piena con forati verticali	-	40,0	120,0	120,0	608	640	36	83

Parete : 12**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
39	-927	-400	350	1
41	-521	-204	350	1
40	-927	-400	700	2
42	-521	-204	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
73	Muratura Piena con forati verticali	-	40,0	113,8	250,0	57	525	39	40
74	Muratura Piena con forati verticali	-	40,0	186,7	250,0	357	525	41	42

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
71	Muratura Piena con forati verticali	-	40,0	150,0	100,0	189	400	39	41
72	Muratura Piena con forati verticali	-	40,0	150,0	100,0	189	650	40	42

Parete : 13**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
41	-521	-204	350	1
112	-325	-182	350	1
114	-28	-147	350	1
44	176	-124	350	1
42	-521	-204	700	2
113	-325	-182	700	2
115	-28	-147	700	2
45	176	-124	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
81	Muratura Piena con forati verticali	-	40,0	48,3	285,0	24	539	41	42
82	Muratura Piena con forati verticali	-	40,0	48,3	285,0	172	539	112	113
83	Muratura Piena con forati verticali	-	40,0	99,8	285,0	246	539	112	113
84	Muratura Piena con forati verticali	-	40,0	99,8	285,0	446	539	114	115
85	Muratura Piena con forati verticali	-	40,0	52,8	285,0	522	539	114	115
86	Muratura Piena con forati verticali	-	40,0	52,8	285,0	675	539	44	45

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore	Base	Altezza	Baricentro X	Baricentro Z	Nodo	Nodo
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			[cm]	[cm]	[cm]	[cm]	[cm]	sinistro	destro
75	Muratura Piena con forati verticali	-	40,0	100,0	100,0	98	400	41	112
77	Muratura Piena con forati verticali	-	40,0	100,0	100,0	346	400	112	114
79	Muratura Piena con forati verticali	-	40,0	100,0	100,0	599	400	114	44
76	Muratura Piena con forati verticali	-	40,0	100,0	30,0	98	685	42	113
78	Muratura Piena con forati verticali	-	40,0	100,0	30,0	346	685	113	115
80	Muratura Piena con forati verticali	-	40,0	100,0	30,0	599	685	115	45

Parete : 14**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
43	176	-124	0	0
46	916	-400	0	0
44	176	-124	350	1
47	916	-400	350	1
45	176	-124	700	2
48	916	-400	700	2

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
116	395	0	0
118	285	350	1
117	395	350	1
119	285	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
91	Muratura in mattoni pieni	-	30,0	789,1	350,0	395	175	116	118
92	Muratura priva di Vuoti	-	30,0	39,2	275,0	20	534	44	45
94	Muratura priva di Vuoti	-	30,0	258,9	275,0	660	534	47	48
93	Muratura priva di Vuoti	-	30,0	191,0	200,0	285	550	118	119

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
87	Muratura priva di Vuoti	-	30,0	150,0	100,0	114	400	44	118
89	Muratura priva di Vuoti	-	30,0	150,0	100,0	455	400	117	47
88	Muratura priva di Vuoti	-	30,0	150,0	50,0	114	675	45	119
90	Muratura priva di Vuoti	-	30,0	150,0	50,0	455	675	119	48

Parete : 15

Nodi 3D

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
49	965	218	0	0
120	980	259	0	0
52	1.162	747	0	0
50	965	218	350	1
121	980	259	350	1
53	1.162	747	350	1
51	965	218	700	2
54	1.162	747	700	2

Parete : 16**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
55	645	338	0	0
122	660	378	0	0
58	843	866	0	0
56	645	338	350	1
123	660	378	350	1
59	843	866	350	1
57	645	338	700	2
60	843	866	700	2

Parete : 17**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
43	176	-124	0	0
9	247	136	0	0
20	334	454	0	0
64	408	724	0	0
44	176	-124	350	1
10	247	136	350	1
21	334	454	350	1
65	408	724	350	1
4	483	1.000	350	1
45	176	-124	700	2
22	334	454	700	2
66	408	724	700	2
5	483	1.000	700	2

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
124	299	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
97	Muratura in mattoni pieni	-	30,0	598,6	350,0	299	175	9	10
99	Muratura	-	30,0	47,4	302,4	622	501	21	22
100	Muratura	-	30,0	82,8	302,4	837	501	65	66
101	Muratura	-	20,0	72,4	302,4	915	501	65	66

102	Muratura	-	20,0	64,2	302,4	1.133	501	4	5
98	Muratura priva di Vuoti	-	30,0	598,6	350,0	299	525	10	124

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
95	Muratura	-	30,0	150,0	120,0	721	640	22	66
96	Muratura	-	20,0	150,0	120,0	1.026	640	66	5

Parete : 18**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
61	-721	659	0	0
71	-611	666	0	0
74	-128	693	0	0
64	408	724	0	0
62	-721	659	350	1
72	-611	666	350	1
75	-128	693	350	1
65	408	724	350	1
63	-721	659	700	2
73	-611	666	700	2
76	-128	693	700	2
66	408	724	700	2

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
125	55	350	1
126	55	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
107	Muratura Piena con forati verticali	-	25,0	109,4	350,0	55	525	125	126
108	Muratura Piena con forati verticali	-	25,0	117,3	250,0	168	525	72	73
109	Muratura Piena con forati verticali	-	25,0	117,3	250,0	535	525	75	76
110	Muratura Piena con forati verticali	-	25,0	143,1	250,0	666	525	75	76
111	Muratura Piena con forati verticali	-	25,0	143,1	250,0	1.059	525	65	66

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
103	Muratura Piena con forati verticali	-	25,0	250,0	100,0	352	400	72	75
105	Muratura Piena con forati verticali	-	25,0	250,0	100,0	862	400	75	65
104	Muratura Piena con forati verticali	-	25,0	250,0	100,0	352	650	73	76
106	Muratura Piena	-	25,0	250,0	100,0	862	650	76	66

	con forati verticali								
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Parete : 19**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
67	-615	1.139	0	0
71	-611	666	0	0
69	-609	416	0	0
68	-615	1.139	350	1
72	-611	666	350	1
70	-609	416	350	1
73	-611	666	700	2

Parete : 20**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
74	-128	693	0	0
77	104	1.048	0	0
75	-128	693	350	1
78	104	1.048	350	1

Parete : 21**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
74	-128	693	0	0
79	-119	436	0	0
75	-128	693	350	1
80	-119	436	350	1
76	-128	693	700	2
81	-119	436	700	2

Parete : 22**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
82	-1.287	98	350	1
30	-664	414	350	1
83	-1.287	98	700	2
31	-664	414	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
113	Muratura Piena con forati verticali	-	20,0	187,2	302,4	94	501	82	83
114	Muratura Piena con forati verticali	-	20,0	391,1	302,4	503	501	30	31

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore	Base	Altezza	Baricentro X	Baricentro Z	Nodo	Nodo
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			[cm]	[cm]	[cm]	[cm]	[cm]	sinistro	destro
112	Muratura Piena con forati verticali	-	20,0	120,0	120,0	247	640	83	31

Parete : 23**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
32	-791	963	0	0
61	-721	659	0	0
29	-664	414	0	0
33	-791	963	350	1
62	-721	659	350	1
30	-664	414	350	1
41	-521	-204	350	1
34	-791	963	700	2
63	-721	659	700	2
31	-664	414	700	2
42	-521	-204	700	2

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
127	156	350	1
128	156	700	2

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
116	Muratura in mattoni pieni	-	30,0	564,3	350,0	282	175	61	62
118	Muratura Piena con forati verticali	-	40,0	44,9	302,4	334	501	62	63
119	Muratura Piena con forati verticali	-	40,0	721,9	302,4	838	501	30	31
117	Muratura Piena con forati verticali	-	20,0	311,8	350,0	156	525	127	128

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
115	Muratura Piena con forati verticali	-	40,0	120,0	120,0	417	640	63	31

Parete : 24**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
46	916	-400	0	0
90	1.009	-149	0	0
87	1.124	159	0	0
47	916	-400	350	1
91	1.009	-149	350	1
88	1.124	159	350	1
48	916	-400	700	2
92	1.009	-149	700	2

89	1.124	159	700	2
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Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
129	134	0	0
131	432	0	0
130	134	350	1
132	432	350	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
120	Muratura in mattoni pieni	-	30,0	268,0	350,0	134	175	129	130
121	Muratura Piena con forati verticali	-	30,0	328,2	350,0	432	175	131	132
122	Muratura	-	20,0	596,2	350,0	298	525	91	92

(*) Elementi di copertura

Carichi**Carico Sismico:**

Le verifiche allo stato limite ultimo (SLV) e allo stato limite di esercizio (SLD; SLO); devono essere effettuate per la seguente combinazione [Norme Tecniche 2018 §2.5.3].

$$E + G_{k1} + G_{k2} + \sum_i \psi_{2i} Q_{ki}$$

Gli effetti dell'azione sismica saranno valutati tenendo conto delle masse associate ai seguenti carichi gravitazionali:

$$G_{k1} + G_{k2} + \sum_i \psi_{2i} Q_{ki}$$

Carico Statico:

La verifica allo stato limite ultimo per carichi statici viene condotta con la seguente combinazione dei carichi.

$$\gamma_{G1} G_{k1} + \gamma_{G2} G_{k2} + \gamma_Q \psi_0 Q_k$$

dove:

- E azione sismica per lo stato limite in esame;
- G_{k1} peso proprio di tutti gli elementi strutturali;
- G_{k2} peso proprio di tutti gli elementi non strutturali;

Q_{ki}	valore caratteristico della azione variabile;
Ψ_2	coefficiente di combinazione;
Ψ_0	coefficiente di combinazione per i carichi variabili
$\gamma_{G1}; \gamma_{G2}; \gamma_Q$	coefficienti parziali di sicurezza

I valori dei vari coefficienti sono scelti in base alla destinazione d'uso dei vari solai secondo quanto indicato nella norma. [Norme Tecniche 2018 Tabella 2.5.1].

Note

CDM : Considera solo contributo dinamico della massa

N. Solaio	Gk1 [daN/m2]	Gk2 [daN/m2]	Qk [daN/m2]	Carico dominante	ψ_0	ψ_2
1	300	200	300	No	0,70	0,30
2	300	200	300	No	0,70	0,30
3	300	200	300	No	0,70	0,30
4	300	200	300	No	0,70	0,30
5	300	200	300	No	0,70	0,30
6	300	200	300	No	0,70	0,30
7	300	200	300	No	0,70	0,30
8	300	200	300	No	0,70	0,30
10	300	200	300	No	0,70	0,30
11	300	200	300	No	0,70	0,30
12	300	200	300	No	0,70	0,30
14	330	100	100	No	0,70	0,30
15	330	100	100	No	0,70	0,30
16	330	100	100	No	0,70	0,30
17	330	100	100	No	0,70	0,30
18	330	100	100	No	0,70	0,30
19	300	100	100	No	0,70	0,30
20	300	100	100	No	0,70	0,30
22	300	100	100	No	0,70	0,30
23	300	100	100	No	0,70	0,30
24	300	100	100	No	0,70	0,30
25	300	100	100	No	0,70	0,30
26	300	200	300	No	0,70	0,30
27	300	200	300	No	0,70	0,30
28	300	200	300	No	0,70	0,30
29	300	100	100	No	0,70	0,30

Spettro da normativa

Gli spettri di risposta, sono definiti in funzione del reticolo di riferimento definito nella “Tabella 1” (parametri spettrali) in allegato alle Norme Tecniche.

Tale tabella fornisce, in funzione delle coordinate geografiche (latitudine, longitudine), i parametri necessari a tracciare lo spettro. I parametri forniti dal reticolo di riferimento sono:

a_g : accelerazione orizzontale massima del terreno;

F_0 : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T_c^* : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale.

La trilogia di valori qui descritta, è definita per un periodo di ritorno assegnato (TR), definito in base alla probabilità di superamento di ciascuno degli stati limite.

Tali valori, saranno pertanto definiti per ciascuno degli stati limite esaminati (vedere tabella).

Lo spettro sismico dipende anche dalla “Classe del suolo” e dalla “categoria topografica” (vedere tabella).

	SLC	SLV	SLD	SLO
A_g [m/s ²]	2,53	1,98	0,80	0,64
F_0	2,50	2,59	3,21	2,59
T_c^* [s]	0,35	0,34	0,30	0,29
T_r	1462,00	712,00	75,00	45,00

	SLC	SLV	SLD	SLO
S_s	1,00	1,00	1,00	1,00
T_b [s]	0,12	0,17	0,09	0,11
T_c [s]	0,35	0,52	0,27	0,33
T_d [s]	2,63	2,41	1,93	1,93

Analisi incrementale a collasso (pushover)

Descrizione analisi pushover

Al fine di eseguire le dovute verifiche nei riguardi dell'edificio in questione, si è deciso di procedere con l'esecuzione di una analisi statica non lineare.

Le verifiche richieste si concretizzano nel confronto tra la curva di capacità per le diverse condizioni previste e la domanda di spostamento prevista dalla normativa.

La curva di capacità è individuata mediante un diagramma spostamento-taglio massimo alla base.

Secondo le prescrizioni da normativa, le condizioni di carico da esaminare devono considerare almeno due distribuzioni di forze d'inerzia, ricadenti l'una nelle distribuzioni principali (Gruppo 1) e l'altra nelle distribuzioni secondarie (Gruppo 2) appresso illustrate.

- distribuzione proporzionale alle Forze statiche (Gruppo 1)

- distribuzione uniforme di forze, da intendersi come derivata da una distribuzione uniforme di accelerazioni lungo l'altezza della costruzione (Gruppo 2);

L'analisi, eseguita in controllo di spostamento, procede al calcolo della distribuzione di forze che genera il valore dello spostamento richiesto. L'analisi viene fatta continuare fino a che non si verifica il decadimento del taglio al 80% dal suo valore di picco. Si calcola così il valore dello spostamento massimo alla base dell'edificio generato da quella distribuzione di forze. Questo valore di spostamento costituisce il valore ultimo dell'edificio.

Lo spostamento preso in esame per il tracciamento della curva di capacità è quello di un punto dell'edificio detto nodo di controllo.

La normativa richiede il tracciamento di una curva di capacità bi-lineare di un sistema equivalente (SDOF). Il tracciamento di tale curva deve avvenire con una retta che, passando per l'origine interseca la curva del sistema reale in corrispondenza del 70% del valore di picco; la seconda retta risulterà parallela all'asse degli spostamenti tale da generare l'equivalenza delle aree tra i diagrammi del sistema reale e quello equivalente.

La determinazione della curva relativa al sistema equivalente, permette di determinare il periodo con cui ricavare lo spostamento massimo richiesto dal sisma, secondo gli spettri riportati sulla normativa.

La normativa definisce una eccentricità accidentale del centro delle masse pari al 5% della massima dimensione dell'edificio in direzione perpendicolare al sisma.

In base alla tipologia dell'edificio e alle scelte progettuali che si ritengono più idonee, si può decidere la condizione di carico sismico da prendere in esame.

- Carico sismico: Individua quale delle due tipologie di distribuzioni (proporzionale alle masse o al primo modo) prendere in esame.
- Direzione: Individua la direzione lungo cui viene caricata la struttura (X o Y del sistema globale) dal carico sismico.

Al fine di individuare la condizione di carico sismico più gravosa, si è deciso di eseguire le analisi distinte per tipologia di carico, direzione del sisma e di eventuali eccentricità accidentali.

N.	Dir. sisma	Carico sismico proporzionale	Eccentricità [cm]	Livello	Nodo
1	+X	Uniforme	0,0	2	81
2	+X	Forze statiche	0,0	2	81
3	-X	Uniforme	0,0	2	81
4	-X	Forze statiche	0,0	2	81
5	+Y	Uniforme	0,0	2	81
6	+Y	Forze statiche	0,0	2	81

7	-Y	Uniforme	0,0	2	81
8	-Y	Forze statiche	0,0	2	81
9	+X	Uniforme	80,0	2	81
10	+X	Uniforme	-80,0	2	81
11	+X	Forze statiche	80,0	2	81
12	+X	Forze statiche	-80,0	2	81
13	-X	Uniforme	80,0	2	81
14	-X	Uniforme	-80,0	2	81
15	-X	Forze statiche	80,0	2	81
16	-X	Forze statiche	-80,0	2	81
17	+Y	Uniforme	163,9	2	81
18	+Y	Uniforme	-163,9	2	81
19	+Y	Forze statiche	163,9	2	81
20	+Y	Forze statiche	-163,9	2	81
21	-Y	Uniforme	163,9	2	81
22	-Y	Uniforme	-163,9	2	81
23	-Y	Forze statiche	163,9	2	81
24	-Y	Forze statiche	-163,9	2	81

Risultati

Secondo le indicazioni da normativa si devono eseguire le seguenti verifiche:

Stato limite Collasso (SLC):

$$D_{max}^{SLC} \leq D_u^{SLC}$$

D_{max}^{SLC} : Spostamento massimo richiesto dalla normativa individuato dallo spettro elastico.

D_u^{SLC} : Spostamento massimo offerto dalla struttura corrispondente al minore tra:

- 1) il valore del taglio di base residuo pari all'80% di quello massimo
- 2) il valore corrispondente al raggiungimento della soglia limite della deformazione angolare a SLC in tutti i maschi murari verticali di qualunque livello in una qualunque parete ritenuta significativa ai fini della sicurezza.

$$q^* < 4,0$$

q^* : rapporto tra la forza di risposta elastica e la forza di snervamento del sistema equivalente

Stato limite Vita (SLV):

$$D_{max}^{SLV} \leq D_u^{SLV}$$

D_{max}^{SLV} : Spostamento massimo richiesto dalla normativa individuato dallo spettro elastico.

D_u^{SLV} : Spostamento massimo offerto dalla struttura individuato in corrispondenza di 0,75
 $\cdot D_u^{SLC}$

$$q^* < 3,0$$

q^* : rapporto tra la forza di risposta elastica e la forza di snervamento del sistema equivalente

Stato limite di Danno (SLD):

$$D_{max}^{SLD} \leq D_u^{SLD}$$

D_{max}^{SLD} : Spostamento massimo richiesto dalla normativa, calcolato in base allo spettro sismico definito per lo stato limite di danno.

D_u^{SLD} : Spostamento minore tra:

- 1) quello corrispondente al limite elastico della bilineare equivalente definita a partire dallo spostamento ultimo a SLC
- 2) quello corrispondente al raggiungimento della resistenza massima a taglio in tutti i maschi murari verticali in un qualunque livello di una qualunque parte ritenuta significativa ai fini dell'uso della costruzione (e comunque non prima dello spostamento per il quale si raggiunge un taglio di base pari a 0,7500 del taglio di base massimo)

Stato limite di Operatività (SLO):

$$D_{max}^{SLO} \leq D_u^{SLO}$$

D_{max}^{SLO} : Spostamento massimo richiesto dalla normativa, calcolato in base allo spettro sismico definito per lo stato limite di operatività.

D_u^{SLO} : Spostamento pari a 0,6670 di quello allo SLD.

Vulnerabilità sismica

Per ciascuno stato limite eseguito viene calcolato l'indice di rischio α (α_{SLC} , α_{SLV} , α_{SLD} , α_{SLO}). Questi parametri vengono calcolati come indicato nel seguito:

$$\alpha_{SLC} = \frac{PGA_{CLC}}{PGA_{DLC}} ;$$

$$\alpha_{SLV} = \frac{PGA_{CLV}}{PGA_{DLV}} ;$$

$$\alpha_{SLD} = \frac{PGA_{CLD}}{PGA_{DLD}} ;$$

$$\alpha_{SLO} = \frac{PGA_{CLO}}{PGA_{DLO}} ;$$

Accelerazioni di capacità: l'entità massima delle azioni, considerate nelle combinazioni di progetto previste, che la struttura è capace di sostenere.

- PGA_{CLC} : accelerazione di capacità corrispondente a SLC
- PGA_{CLV} : accelerazione di capacità corrispondente a SLV
- PGA_{CLD} : accelerazione di capacità corrispondente a SLD
- PGA_{CLO} : accelerazione di capacità corrispondente a SLO

Accelerazioni di domanda : Valori di riferimento delle accelerazioni dell'azione sismica

Tali valori vengono definiti a partire dal carico sismico definito nella forma dello spettro.

- PGA_{DLC} : accelerazione di picco al suolo corrispondente a SLC
- PGA_{DLV} : accelerazione di picco al suolo corrispondente a SLV

- PGA_{DLD} : accelerazione di picco al suolo corrispondente a SLD

- PGA_{DLO} : accelerazione di picco al suolo corrispondente a SLO

Dettaglio verifiche

N.	Dir. sisma	Car. sismico prop.	Ecc. [cm]	Dmax SLC [cm]	Du SLC [cm]	q* SLC	SLC ver.	Dmax SLV [cm]	Du SLV [cm]	q* SLV	SLV ver.
1	+X	Uniforme	0,0	0,09	0,04	0,40	No	0,06	0,03	0,40	No
2	+X	Forze statiche	0,0	0,12	0,04	0,53	No	0,08	0,03	0,53	No
3	-X	Uniforme	0,0	0,12	0,04	0,37	No	0,08	0,03	0,37	No
4	-X	Forze statiche	0,0	0,16	0,04	0,50	No	0,11	0,03	0,50	No
5	+Y	Uniforme	0,0	0,11	0,03	0,62	No	0,08	0,02	0,62	No
6	+Y	Forze statiche	0,0	0,23	0,03	0,82	No	0,10	0,02	0,82	No
7	-Y	Uniforme	0,0	0,06	0,03	0,42	No	0,04	0,02	0,42	No
8	-Y	Forze statiche	0,0	0,09	0,03	0,56	No	0,06	0,02	0,56	No
9	+X	Uniforme	80,0	0,09	0,04	0,36	No	0,06	0,03	0,36	No
10	+X	Uniforme	-80,0	0,08	0,04	0,44	No	0,05	0,03	0,44	No
11	+X	Forze statiche	80,0	0,12	0,04	0,49	No	0,08	0,03	0,49	No
12	+X	Forze statiche	-80,0	0,11	0,04	0,58	No	0,07	0,03	0,58	No
13	-X	Uniforme	80,0	0,12	0,04	0,36	No	0,08	0,03	0,36	No
14	-X	Uniforme	-80,0	0,13	0,04	0,39	No	0,08	0,03	0,39	No
15	-X	Forze statiche	80,0	0,16	0,04	0,49	No	0,11	0,03	0,49	No
16	-X	Forze statiche	-80,0	0,16	0,04	0,50	No	0,10	0,03	0,50	No
17	+Y	Uniforme	163,9	0,23	0,03	0,73	No	0,12	0,02	0,73	No
18	+Y	Uniforme	-163,9	0,07	0,03	0,54	No	0,05	0,02	0,54	No
19	+Y	Forze statiche	163,9	0,37	0,03	0,97	No	0,16	0,02	0,97	No
20	+Y	Forze statiche	-163,9	0,12	0,03	0,72	No	0,07	0,02	0,72	No
21	-Y	Uniforme	163,9	0,07	0,03	0,47	No	0,05	0,02	0,47	No
22	-Y	Uniforme	-163,9	0,06	0,03	0,43	No	0,04	0,02	0,43	No
23	-Y	Forze statiche	163,9	0,09	0,03	0,62	No	0,06	0,02	0,62	No
24	-Y	Forze statiche	-163,9	0,08	0,03	0,55	No	0,05	0,02	0,55	No

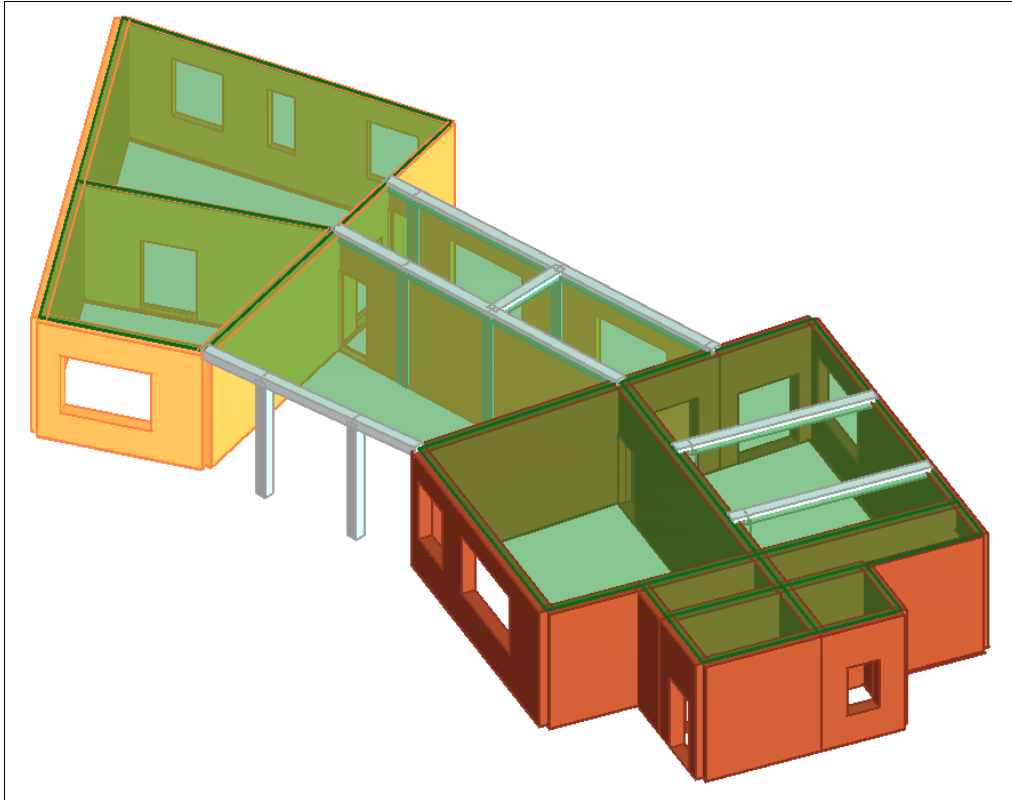
N.	Dir. sisma	Car. sismico prop.	Ecc. [cm]	Dmax SLD [cm]	Dd SLD [cm]	SLD ver.	Dmax SLO [cm]	Do SLO [cm]	SLO ver.
1	+X	Uniforme	0,0	0,04	0,14	Sì	0,02	0,10	Sì
2	+X	Forze statiche	0,0	0,05	0,14	Sì	0,03	0,10	Sì
3	-X	Uniforme	0,0	0,06	0,21	Sì	0,03	0,14	Sì
4	-X	Forze statiche	0,0	0,07	0,21	Sì	0,04	0,14	Sì
5	+Y	Uniforme	0,0	0,05	0,12	Sì	0,03	0,08	Sì
6	+Y	Forze statiche	0,0	0,07	0,12	Sì	0,04	0,08	Sì
7	-Y	Uniforme	0,0	0,03	0,10	Sì	0,02	0,07	Sì
8	-Y	Forze statiche	0,0	0,04	0,10	Sì	0,02	0,07	Sì
9	+X	Uniforme	80,0	0,04	0,16	Sì	0,02	0,11	Sì
10	+X	Uniforme	-80,0	0,04	0,12	Sì	0,02	0,08	Sì
11	+X	Forze statiche	80,0	0,06	0,16	Sì	0,03	0,11	Sì

12	+X	Forze statiche	-80,0	0,05	0,12	Sì	0,03	0,08	Sì
13	-X	Uniforme	80,0	0,06	0,23	Sì	0,03	0,15	Sì
14	-X	Uniforme	-80,0	0,06	0,21	Sì	0,03	0,14	Sì
15	-X	Forze statiche	80,0	0,07	0,22	Sì	0,04	0,15	Sì
16	-X	Forze statiche	-80,0	0,07	0,20	Sì	0,04	0,14	Sì
17	+Y	Uniforme	163,9	0,08	0,16	Sì	0,05	0,11	Sì
18	+Y	Uniforme	-163,9	0,03	0,09	Sì	0,02	0,06	Sì
19	+Y	Forze statiche	163,9	0,10	0,16	Sì	0,06	0,11	Sì
20	+Y	Forze statiche	-163,9	0,05	0,09	Sì	0,03	0,06	Sì
21	-Y	Uniforme	163,9	0,03	0,10	Sì	0,02	0,06	Sì
22	-Y	Uniforme	-163,9	0,03	0,09	Sì	0,02	0,06	Sì
23	-Y	Forze statiche	163,9	0,04	0,10	Sì	0,02	0,06	Sì
24	-Y	Forze statiche	-163,9	0,04	0,09	Sì	0,02	0,06	Sì

N.	Dir. sisma	Car. sismico prop.	Ecc. [cm]	α SLC	α SLV	α SLD	α SLO
1	+X	Uniforme	0,0	0,454	0,510	3,574	4,112
2	+X	Forze statiche	0,0	0,340	0,386	2,645	3,041
3	-X	Uniforme	0,0	0,322	0,366	3,808	4,327
4	-X	Forze statiche	0,0	0,241	0,277	3,026	3,217
5	+Y	Uniforme	0,0	0,278	0,316	2,310	2,627
6	+Y	Forze statiche	0,0	0,206	0,237	1,834	1,948
7	-Y	Uniforme	0,0	0,492	0,548	3,461	3,936
8	-Y	Forze statiche	0,0	0,369	0,416	2,554	2,947
9	+X	Uniforme	80,0	0,438	0,493	3,939	4,539
10	+X	Uniforme	-80,0	0,482	0,541	3,244	3,724
11	+X	Forze statiche	80,0	0,322	0,366	2,925	3,328
12	+X	Forze statiche	-80,0	0,368	0,417	2,427	2,823
13	-X	Uniforme	80,0	0,311	0,354	3,934	4,446
14	-X	Uniforme	-80,0	0,315	0,359	3,698	4,173
15	-X	Forze statiche	80,0	0,235	0,270	3,086	3,269
16	-X	Forze statiche	-80,0	0,254	0,291	2,981	3,201
17	+Y	Uniforme	163,9	0,183	0,211	2,113	2,183
18	+Y	Uniforme	-163,9	0,419	0,470	2,678	3,064
19	+Y	Forze statiche	163,9	0,141	0,158	1,704	1,760
20	+Y	Forze statiche	-163,9	0,311	0,352	1,962	2,278
21	-Y	Uniforme	163,9	0,489	0,546	3,095	3,527
22	-Y	Uniforme	-163,9	0,523	0,581	3,459	3,913
23	-Y	Forze statiche	163,9	0,368	0,415	2,288	2,646
24	-Y	Forze statiche	-163,9	0,392	0,440	2,584	2,967

Dalla tabella riassuntiva dei risultati sopra riportata si desume che le verifiche risultano non soddisfatte, le analisi più significative sono la n°. 15 e la n°. 19 , rispettivamente per le direzioni X ed Y .

La scelta di tali analisi come analisi “significative” è fatta in base alla ricerca del minore valore del parametro di vulnerabilità sismica.



Vista tridimensionale del modello di calcolo lato Via del Pino.

Norme di riferimento

Sono stati recepiti, per le analisi di cui in seguito, i principi e le regole riportate nelle normative seguenti:

- Decreto Ministeriale 17 gennaio 2018 - "Norme tecniche per le Costruzioni"
- Circolare applicativa n°7 del 21 gennaio 2019

Azione sismica

Per la definizione dell'azione sismica si fa riferimento a:

- Categoria di sottosuolo: A
- Categoria topografica: T1
- Longitudine: 13.4653
- Latitudine: 43.2222
- Vita nominale: Opere ordinarie VN $\geq$ 50 anni
- Classe d'uso III - Edifici con grandi affollamenti, infrastrutture importanti

Descrizione del modello

Materiali

Comportamento meccanico della muratura

Le proprietà meccaniche del materiale muratura sono definite in modo da individuarne al meglio il comportamento in campo non lineare.

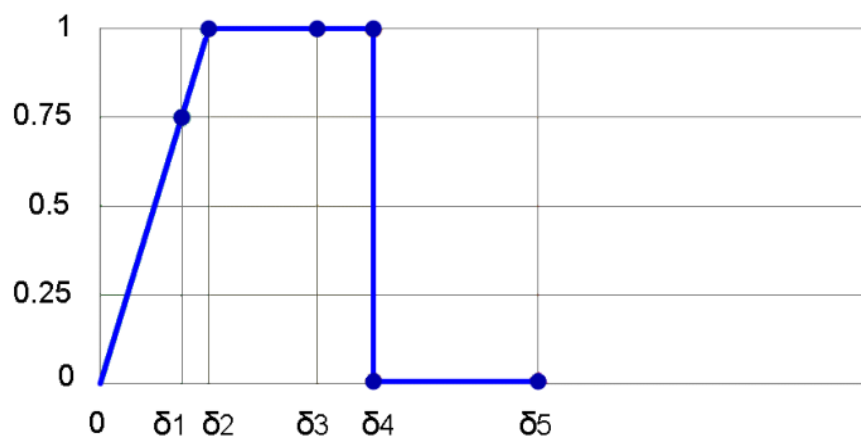
Le caratteristiche principali sono:

- Rigidezza iniziale secondo le caratteristiche elastiche (fessurate) del materiale;
- Redistribuzione delle sollecitazioni interne all'elemento tali da garantire l'equilibrio;
- Settaggio dello stato di danno secondo i parametri globali e locali;
- Degradazione della rigidezza nel ramo plastico;
- Controllo di duttilità mediante la definizione di drift massimo (δu) differenziato secondo quanto previsto nelle normative vigenti a seconda del meccanismo di danneggiamento agente sul pannello
- Eliminazione dell'elemento, al raggiungimento delle condizioni limite senza interruzione dell'analisi.

Il comportamento non lineare si attiva quando un valore di forza raggiunge il suo massimo valore definito come il minimo fra i criteri di resistenza pressoflessione e taglio.

Il comportamento dei maschi murari associati ai meccanismi di taglio e pressoflessione può essere descritto attraverso diversi tratti che rappresentano i progressivi livelli di danno.

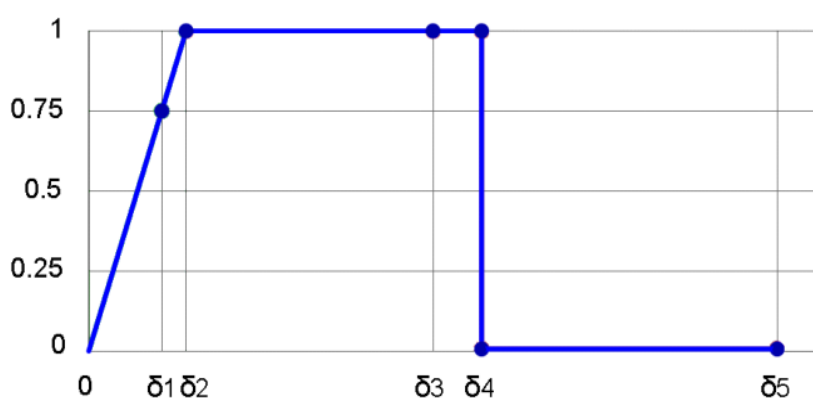
Maschio con meccanismo a taglio



Il comportamento del maschio murario a taglio si può descrivere attraverso i seguenti tratti, rappresentativi dei progressivi livelli di danno relativi al diagramma precedente:

$0 - \delta_1$	elasticità
$\delta_1 - \delta_2$	incipiente di plasticità
$\delta_2 - \delta_3$	plastico per taglio
$\delta_3 - \delta_4$	incipiente rottura per taglio
$\delta_4 - \delta_5$	rottura per taglio
$\delta_5 - \infty$	crisi grave

Maschio con meccanismo a pressoflessione



Il comportamento del maschio murario pressoflessione, invece, si può descrivere attraverso i seguenti tratti:

$0 - \delta_1$	elasticità
$\delta_1 - \delta_2$	incipiente di plasticità
$\delta_2 - \delta_3$	plastico per pressoflessione
$\delta_3 - \delta_4$	incipiente rottura per pressoflessione
$\delta_4 - \delta_5$	rottura per pressoflessione
$\delta_5 - \infty$	crisi grave

Alcuni tra questi livelli di rottura sono necessari per descrivere con maggiore cura il progredire della crisi permettendo una più accurata previsione degli interventi e del livello di degrado della muratura:

- Incipiente plasticità: Quando un elemento si trova ancora in campo elastico ma è prossimo alla plasticità
- Incipiente rottura: Quando un elemento è in campo plastico ma è prossimo alla rottura

- Crisi grave: Quando in seguito alla rottura dell'elemento le deformazioni diventano talmente significative da poter generare un crollo locale.

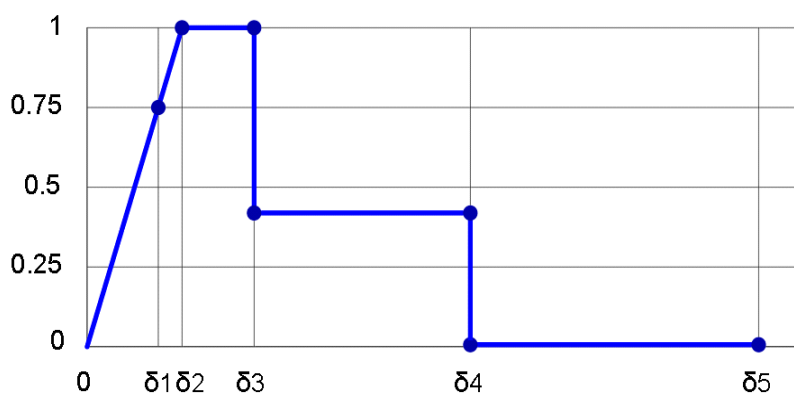
Il software mette a disposizione tre categorie di legame:

- Con degrado di resistenza a un valore residuo (Legame multilineare)
- Con resistenza pari al valore residuo (Legame bilineare)
- Priva di resistenza residua

Tra queste le categorie di legame utilizzate all'interno del progetto in esame sono:

- Con degrado di resistenza a un valore residuo (Legame multilineare)

Con degrado di resistenza a un valore residuo (Legame multilineare)



Questo tipo di legame è definito nella circolare al §C8.7.1.3.1 assumendo:

δ_1 : $0.75 * \delta_2$

δ_2 : deformazione in corrispondenza del limite elastico definito dalla rigidezza e resistenza limite

δ_3 : 0.005

δ_4 : 0.015

δ_5 : $2 * \delta_4$ Questa deformazione rappresenta lo stato di “crisi grave” non direttamente richiesta nella normativa ma utile come avviso per il progettista.

Nome	Tipo	Colore	Descrizione
C16/20	Calcestruzzo		

C20/25	Calcestruzzo		
C25/30	Calcestruzzo		
B450	Acciaio armatura		NTC08
Muratura priva di fori verticali	Muratura		
Muratura priva di vuoti	Muratura		

Muratura

Nome	Condizione del materiale	Tipo legame	Peso specifico [kN/m3]
Muratura priva di fori verticali	Esistente	Muratura irregolare (Turnsek/Cacovic)	15
Muratura priva di vuoti	Esistente	Muratura irregolare (Turnsek/Cacovic)	18

Nome	E [N/mm2]	Eh [N/mm2]	G [N/mm2]	f _m [N/cm2]	f _{hm} [N/cm2]	FC	γ _m
Muratura priva di fori verticali	4.550,00	4.550,00	1.137,50	541,67	487,50	1,20	3,00
Muratura priva di vuoti	1.500,00	1.500,00	500,00	287,50	258,75	1,20	3,00

Nome	τ [N/cm2]	f _b [N/mm2]	f _{v0} [N/mm2]	Φ	μ	f _{bt} [N/mm2]	Indice ingranamento	Indice coesione
Muratura priva di fori verticali	10,42	8,00	28,00	0,00	0,00	0,0	1,00	1,00
Muratura priva di vuoti	7,50	10,00	20,00	0,00	0,00	0,0	1,00	1,00

Calcestruzzo

Nome	E [N/mm2]	G [N/mm2]	Peso specifico [kN/m3]	f _{cm} [N/mm2]	f _{ck} [N/mm2]
C16/20	28.608,00	11.920,00	25	24,0	16,00
C20/25	29.962,00	12.484,00	25	28,0	20,00
C25/30	31.476,00	13.115,00	25	33,0	25,00

Acciaio armatura

Nome	E [N/mm2]	G [N/mm2]	Peso specifico [kN/m3]	f _{ym} [N/mm2]	f _{yk} [N/mm2]
B450	206.000,00	79.231,00	79	484,0	450,00

Geometria del modello

La modellazione dell'edificio viene realizzata mediante l'inserimento di pareti che vengono discretizzate in macroelementi, rappresentativi di maschi murari e fasce di piano deformabili; i nodi rigidi sono indicati nelle porzioni di muratura che tipicamente sono meno soggette al danneggiamento sismico. Solitamente i maschi e le fasce sono contigui alle aperture, i nodi rigidi rappresentano elementi di collegamento tra maschi e fasce. La concezione matematica che si nasconde nell'impiego di tale elemento, permette di riconoscere il meccanismo di danno, a taglio nella sua parte centrale o a pressoflessione sui bordi dell'elemento in modo da percepire la dinamica del danneggiamento così come si presenta effettivamente nella realtà.

I nodi del modello, sono nodi tridimensionali a 5 gradi di libertà (le tre componenti di spostamento nel sistema di riferimento globale e le rotazioni intorno agli assi X e Y) o nodi bidimensionali a 3 gradi di libertà (due traslazioni e la rotazione nel piano della parete). Quelli tridimensionali vengono usati per permettere il trasferimento delle azioni, da un primo muro a un secondo disposto trasversalmente rispetto al primo. I nodi di tipo bidimensionale hanno gradi di libertà nel solo piano della parete permettendo il trasferimento degli stati di sollecitazione tra i vari punti della parete.

Gli orizzontamenti, sono modellati con elementi solaio a tre nodi connessi ai nodi tridimensionali, sono caricabili perpendicolarmente al loro piano dai carichi accidentali e permanenti; le azioni sismiche caricano il solaio lungo la direzione del piano medio. Per questo l'elemento finito solaio viene definito con una rigidezza assiale, ma nessuna rigidezza flessionale, in quanto il comportamento meccanico principale che si intende sondare è quello sotto carico orizzontale dovuto al sisma.

Elementi di struttura

Livello 1

Pannello murario

N.	Parete	Materiale	Rinforzo	Quota [cm]	Altezza [cm]	Spessore [cm]
1	1	Muratura priva di fori verticali	-	360	360	40,0
3	2	Muratura priva di fori verticali	-	360	360	20,0
85	3	Muratura priva di fori verticali	-	360	360	40,0
86	3	Muratura priva di fori verticali	-	360	360	20,0
87	3	Muratura priva di fori verticali	-	360	360	20,0
7	4	Muratura priva di fori verticali	-	360	360	40,0
64	6	Muratura priva di vuoti	-	360	360	40,0
82	6	Muratura priva di vuoti	-	360	360	40,0
83	6	Muratura priva di vuoti	-	360	360	40,0
15	8	Muratura priva di fori verticali	-	360	360	20,0
66	10	Muratura priva di vuoti	-	360	360	40,0
78	10	Muratura priva di vuoti	-	360	360	40,0
79	10	Muratura priva di vuoti	-	360	360	40,0
21	11	Muratura priva di vuoti	-	360	360	40,0
69	12	Muratura priva di vuoti	-	360	360	40,0
70	12	Muratura priva di vuoti	-	360	360	40,0
71	12	Muratura priva di vuoti	-	360	360	40,0
25	13	Muratura priva di vuoti	-	360	360	30,0
72	14	Muratura priva di vuoti	-	360	360	40,0
73	14	Muratura priva di vuoti	-	360	360	40,0
74	15	Muratura priva di vuoti	-	360	360	40,0
75	15	Muratura priva di vuoti	-	360	360	40,0
31	16	Muratura priva di vuoti	-	360	360	30,0
77	17	Muratura priva di vuoti	-	360	360	20,0
80	17	Muratura priva di vuoti	-	360	360	40,0
81	17	Muratura priva di vuoti	-	360	360	40,0

Pannello + Cordolo C.A. (1)

N.	Parete	Materiale pannello	Rinforzo	Quota pannello [cm]	Altezza [cm]	Spessore [cm]	Materiale calcestruzzo	Materiale acciaio	Quota cordolo [cm]	Base sezione [cm]	Altezza sezione [cm]
35	5	Muratura priva di fori verticali	-	360	360,0	20,0	C25/30	B450	360	30,0	25,0
37	5	Muratura priva di fori verticali	-	360	360,0	20,0	C25/30	B450	360	30,0	25,0
43	5	Muratura priva di fori verticali	-	360	360,0	20,0	C25/30	B450	360	30,0	25,0
44	5	Muratura priva di fori verticali	-	360	360,0	20,0	C25/30	B450	360	30,0	25,0
40	9	Muratura priva di fori verticali	-	360	360,0	20,0	C25/30	B450	360	30,0	25,0
41	9	Muratura priva di fori verticali	-	360	360,0	20,0	C25/30	B450	360	30,0	25,0
42	9	Muratura priva di fori verticali	-	360	360,0	20,0	C25/30	B450	360	30,0	25,0

Pannello + Cordolo C.A. (2)

N.	Parete	Area [cm ²]	J [cm ⁴]	Af intrad. [cm ²]	Af estrad. [cm ²]	N. barre intrad.	N. barre Estrad.	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm ²]	Porzione deformabile
35	5	750,00	39.062,50	2,26	2,26	2	2	2,5	20	10,05	0,00
37	5	750,00	39.062,50	2,26	2,26	2	2	2,5	20	10,05	0,00
43	5	750,00	39.062,50	2,26	2,26	2	2	2,5	20	10,05	0,00
44	5	750,00	39.062,50	2,26	2,26	2	2	2,5	20	10,05	0,00
40	9	750,00	39.062,50	2,26	2,26	2	2	2,5	20	10,05	0,00
41	9	750,00	39.062,50	2,26	2,26	2	2	2,5	20	10,05	0,00
42	9	750,00	39.062,50	2,26	2,26	2	2	2,5	20	10,05	0,00

Trave C.A. (1)

N.	Parete	Materiale calcestruzzo	Materiale acciaio	Quota I [cm]	Quota J [cm]	Base sezione [cm]	Altezza sezione [cm]	J [cm ⁴]
45	7	C25/30	B450	360	360	30,0	25,0	39.062,50
47	7	C25/30	B450	360	360	30,0	25,0	39.062,50
48	7	C25/30	B450	360	360	30,0	25,0	39.062,50
60	18	C25/30	B450	360	360	30,0	25,0	39.062,50
61	18	C25/30	B450	360	360	30,0	25,0	39.062,50
62	19	C25/30	B450	360	360	30,0	25,0	39.062,50
63	19	C25/30	B450	360	360	30,0	25,0	39.062,50
88	20	C25/30	B450	360	360	30,0	25,0	39.062,50

Trave C.A. (2)

N.	Parete	Af intradosso [cm ²]	Af estradosso [cm ²]	N. barre intradosso	N. barre estradosso	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm ²]
45	7	2,26	2,26	2	2	2,5	20	10,05
47	7	2,26	2,26	2	2	2,5	20	10,05
48	7	2,26	2,26	2	2	2,5	20	10,05
60	18	2,26	2,26	2	2	2,5	20	10,05
61	18	2,26	2,26	2	2	2,5	20	10,05
62	19	2,26	2,26	2	2	2,5	20	10,05
63	19	2,26	2,26	2	2	2,5	20	10,05
88	20	2,26	2,26	2	2	2,5	20	10,05

Pilastro C.A. (1)

N.	Materiale calcestruzzo	Materiale acciaio	Quota [cm]	Base sezione [cm]	Altezza sezione [cm]	Area [cm ²]	Angolo [°]	Altezza [cm]
49	C16/20	B450	360	30,0	30,0	900,00	0	360,0
50	C16/20	B450	360	30,0	30,0	900,00	0	360,0
51	C16/20	B450	360	30,0	30,0	900,00	0	360,0
52	C16/20	B450	360	30,0	30,0	900,00	0	360,0
53	C16/20	B450	360	30,0	30,0	900,00	0	360,0
54	C16/20	B450	360	30,0	30,0	900,00	0	360,0
55	C16/20	B450	360	30,0	30,0	900,00	0	360,0
90	C20/25	B450	360	30,0	20,0	600,00	335	360,0
91	C20/25	B450	360	30,0	20,0	600,00	335	360,0

Pilastro C.A. (2)

N.	Af lato b [cm ²]	Af lato h [cm ²]	N. barre lato b	N. barre lato h	Copriferro [cm]	Passo staffe [cm]	Area staffe [cm ²]
49	4,02	4,02	2	2	2,0	36	10,05
50	4,02	4,02	2	2	2,0	36	10,05
51	4,02	4,02	2	2	2,0	36	10,05
52	4,02	4,02	2	2	2,0	36	10,05
53	4,02	4,02	2	2	2,0	36	10,05
54	4,02	4,02	2	2	2,0	36	10,05
55	4,02	4,02	2	2	2,0	36	10,05
90	2,26	2,26	2	2	2,0	20	10,05
91	2,26	2,26	2	2	2,0	20	10,05

Solaio

N.	Quota [cm]	Spessore [cm]	G [N/mm ²]	Ex [N/mm ²]	Ey [N/mm ²]	Scarico masse	Tipo
1	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
2	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
3	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
4	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
5	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
6	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
7	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
8	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
9	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
10	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
11	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
12	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento
13	360	4,0	1.000,00	44.640,00	0,00	Monodirezionale	Latero cemento

Telaio equivalente**Parete : 1****Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
1	-1.621	693	0	0
15	-1.191	98	0	0
3	-830	-400	0	0
2	-1.621	693	360	1

16	-1.191	98	360	1
4	-830	-400	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
2	Muratura priva di fori verticali	-	40,0	532,2	306,9	266	153	1	2
3	Muratura priva di fori verticali	-	40,0	667,0	306,9	1.016	153	15	16

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
1	Muratura priva di fori verticali	-	40,0	150,0	140,0	607	290	2	16

Parete : 2**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
1	-1.621	693	0	0
5	-695	963	0	0
2	-1.621	693	360	1
6	-695	963	360	1

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
55	366	0	0
57	617	0	0
56	366	360	1
58	617	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
10	Muratura priva di fori verticali	-	20,0	150,3	270,0	75	187	1	2
13	Muratura priva di fori verticali	-	20,0	93,8	270,0	918	187	5	6
11	Muratura priva di fori verticali	-	20,0	132,0	180,0	366	200	55	56
12	Muratura priva di fori verticali	-	20,0	208,7	180,0	617	200	57	58

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
4	Muratura priva di fori verticali	-	20,0	150,0	110,0	225	55	1	55
6	Muratura priva di fori verticali	-	20,0	80,0	110,0	472	55	55	57
8	Muratura priva di fori verticali	-	20,0	150,0	110,0	796	55	57	5
5	Muratura priva di fori verticali	-	20,0	150,0	70,0	225	325	2	56
7	Muratura priva di	-	20,0	80,0	70,0	472	325	56	58

	fori verticali								
9	Muratura priva di fori verticali	-	20,0	150,0	70,0	796	325	58	6

Parete : 3**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
5	-695	963	0	0
9	-624	659	0	0
17	-568	413	0	0
7	-424	-205	0	0
6	-695	963	360	1
10	-624	659	360	1
18	-568	413	360	1
8	-424	-205	360	1

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
59	881	0	0
60	881	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
16	Muratura priva di fori verticali	-	20,0	356,9	306,9	178	153	9	10
17	Muratura priva di fori verticali	-	20,0	87,3	306,9	521	153	17	18
15	Muratura priva di fori verticali	-	40,0	634,4	360,0	881	180	59	60

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
14	Muratura priva di fori verticali	-	20,0	120,0	140,0	417	290	10	18

Parete : 4**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
3	-830	-400	0	0
7	-424	-205	0	0
4	-830	-400	360	1
8	-424	-205	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
20	Muratura priva di fori verticali	-	40,0	62,7	270,0	31	180	3	4
21	Muratura priva di fori verticali	-	40,0	137,8	270,0	382	180	7	8

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
18	Muratura priva di fori verticali	-	40,0	250,0	90,0	188	45	3	7
19	Muratura priva di fori verticali	-	40,0	250,0	90,0	188	315	4	8

Parete : 5**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
9	-624	659	0	0
61	-523	665	0	0
51	-31	693	0	0
63	478	722	0	0
29	504	723	0	0
10	-624	659	360	1
62	-523	665	360	1
52	-31	693	360	1
64	478	722	360	1
30	504	723	360	1

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
65	1.117	0	0
66	1.117	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
28	Muratura priva di fori verticali	-	20,0	26,2	360,0	1.117	180	65	66
29	Muratura priva di fori verticali	-	20,0	10,6	270,0	5	187	9	10
30	Muratura priva di fori verticali	-	20,0	10,6	270,0	96	187	61	62
31	Muratura priva di fori verticali	-	20,0	121,3	270,0	162	187	61	62
32	Muratura priva di fori verticali	-	20,0	121,4	270,0	533	187	51	52
33	Muratura priva di fori verticali	-	20,0	130,0	270,0	659	187	51	52
34	Muratura priva di fori verticali	-	20,0	130,0	270,0	1.039	187	63	64

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
22	Muratura priva di fori verticali	-	20,0	80,0	110,0	51	55	9	61
24	Muratura priva di fori verticali	-	20,0	250,0	110,0	348	55	61	51
26	Muratura priva di fori verticali	-	20,0	250,0	110,0	849	55	51	63
23	Muratura priva di	-	20,0	80,0	70,0	51	325	10	62

	fori verticali								
25	Muratura priva di fori verticali	-	20,0	250,0	70,0	348	325	62	52
27	Muratura priva di fori verticali	-	20,0	250,0	70,0	849	325	52	64

Parete : 6**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
13	272	-124	0	0
19	430	453	0	0
29	504	723	0	0
11	579	1.000	0	0
14	272	-124	360	1
20	430	453	360	1
30	504	723	360	1
12	579	1.000	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
39	Muratura priva di vuoti	-	40,0	53,3	306,9	905	153	29	30
40	Muratura priva di vuoti	-	40,0	53,3	306,9	1.139	153	11	12
37	Muratura priva di vuoti	-	40,0	663,7	314,9	332	157	19	20
38	Muratura priva di vuoti	-	40,0	65,1	314,9	846	157	29	30

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
36	Muratura priva di vuoti	-	40,0	180,0	140,0	1.022	290	30	12
35	Muratura priva di vuoti	-	40,0	150,0	110,0	739	305	20	30

Parete : 7**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
67	-229	-182	0	0
69	68	-148	0	0
8	-424	-205	360	1
68	-229	-182	360	1
70	68	-148	360	1
14	272	-124	360	1

Parete : 8**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
15	-1.191	98	0	0
17	-568	413	0	0

16	-1.191	98	360	1
18	-568	413	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
42	Muratura priva di fori verticali	-	20,0	175,7	306,9	88	153	15	16
43	Muratura priva di fori verticali	-	20,0	372,5	306,9	512	153	17	18

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
41	Muratura priva di fori verticali	-	20,0	150,0	140,0	251	290	16	18

Parete : 9**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
17	-568	413	0	0
71	-319	423	0	0
53	-23	435	0	0
19	430	453	0	0
18	-568	413	360	1
72	-319	423	360	1
54	-23	435	360	1
20	430	453	360	1

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
73	397	0	0
75	772	0	0
74	397	360	1
76	772	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
47	Muratura priva di fori verticali	-	20,0	18,3	314,9	9	157	17	18
48	Muratura priva di fori verticali	-	20,0	130,5	314,9	183	157	71	72
45	Muratura priva di fori verticali	-	20,0	296,6	360,0	397	180	73	74
46	Muratura priva di fori verticali	-	20,0	453,1	360,0	772	180	75	76

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
44	Muratura priva di fori verticali	-	20,0	100,0	110,0	68	305	18	72

Parete : 10

Nodi 3D

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
19	430	453	0	0
27	1.220	158	0	0
43	1.367	104	0	0
21	1.575	26	0	0
20	430	453	360	1
45	742	337	360	1
48	1.061	218	360	1
28	1.220	158	360	1
44	1.367	104	360	1
22	1.575	26	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
51	Muratura priva di vuoti	-	40,0	25,1	306,9	13	153	19	20
52	Muratura priva di vuoti	-	40,0	718,2	306,9	484	153	27	45
53	Muratura priva di vuoti	-	40,0	233,4	306,9	960	153	43	44
54	Muratura priva di vuoti	-	40,0	55,4	306,9	1.194	153	21	22

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
49	Muratura priva di vuoti	-	40,0	100,0	140,0	75	290	20	45
50	Muratura priva di vuoti	-	40,0	90,0	140,0	1.122	290	44	22

Parete : 11**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
13	272	-124	0	0
23	1.012	-400	0	0
14	272	-124	360	1
24	1.012	-400	360	1

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
77	249	0	0
78	249	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
59	Muratura priva di vuoti	-	40,0	40,0	270,0	20	187	13	14
61	Muratura priva di vuoti	-	40,0	182,1	270,0	698	187	23	24
60	Muratura priva di vuoti	-	40,0	117,0	180,0	249	200	77	78

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
55	Muratura priva di vuoti	-	40,0	150,0	110,0	115	55	13	77
57	Muratura priva di vuoti	-	40,0	300,0	110,0	457	55	77	23
56	Muratura priva di vuoti	-	40,0	150,0	70,0	115	325	14	78
58	Muratura priva di vuoti	-	40,0	300,0	70,0	457	325	78	24

Parete : 12**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
23	1.012	-400	0	0
31	1.106	-149	0	0
27	1.220	158	0	0
39	1.418	687	0	0
24	1.012	-400	360	1
32	1.106	-149	360	1
28	1.220	158	360	1
40	1.418	687	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
62	Muratura priva di vuoti	-	40,0	1.160,5	360,0	580	180	27	28

Parete : 13**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
11	579	1.000	0	0
46	939	866	0	0
49	1.259	746	0	0
39	1.418	687	0	0
25	1.564	632	0	0
12	579	1.000	360	1
47	939	866	360	1
50	1.259	746	360	1
40	1.418	687	360	1
26	1.564	632	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
68	Muratura priva di vuoti	-	30,0	63,2	270,0	32	187	11	12
70	Muratura priva di vuoti	-	30,0	111,4	270,0	995	187	25	26
69	Muratura priva di vuoti	-	30,0	476,5	180,0	551	200	46	47

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
63	Muratura priva di vuoti	-	30,0	250,0	110,0	188	55	11	46
65	Muratura priva di vuoti	-	30,0	150,0	110,0	865	55	49	39
64	Muratura priva di vuoti	-	30,0	250,0	70,0	188	325	12	47
66	Muratura priva di vuoti	-	30,0	105,0	70,0	842	325	50	40
67	Muratura priva di vuoti	-	30,0	45,0	70,0	917	325	40	26

Parete : 14**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
31	1.106	-149	0	0
37	1.252	-204	0	0
33	1.460	-282	0	0
32	1.106	-149	360	1
38	1.252	-204	360	1
34	1.460	-282	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
72	Muratura priva di vuoti	-	40,0	222,2	306,9	111	153	37	38
73	Muratura priva di vuoti	-	40,0	36,5	306,9	360	153	33	34

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
71	Muratura priva di vuoti	-	40,0	120,0	140,0	282	290	38	34

Parete : 15**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
33	1.460	-282	0	0
21	1.575	26	0	0
35	1.657	245	0	0
34	1.460	-282	360	1
22	1.575	26	360	1
36	1.657	245	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
76	Muratura priva di vuoti	-	40,0	400,1	255,0	200	176	21	22
77	Muratura priva di	-	40,0	71,9	255,0	526	176	35	36

	vuoti								
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Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
74	Muratura priva di vuoti	-	40,0	90,0	90,0	445	45	21	35
75	Muratura priva di vuoti	-	40,0	90,0	120,0	445	300	22	36

Parete : 16**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
41	1.449	323	0	0
35	1.657	245	0	0
42	1.449	323	360	1
36	1.657	245	360	1

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
79	111	0	0
80	111	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
78	Muratura priva di vuoti	-	30,0	222,3	360,0	111	180	79	80

Parete : 17**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
37	1.252	-204	0	0
43	1.367	104	0	0
41	1.449	323	0	0
25	1.564	632	0	0
38	1.252	-204	360	1
44	1.367	104	360	1
42	1.449	323	360	1
26	1.564	632	360	1

Nodi 2D

Nodo	X locale [cm]	Z [cm]	Livello
81	727	0	0
82	727	360	1

Macroelementi Maschi

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sopra	Nodo sotto
83	Muratura priva di vuoti	-	40,0	265,0	220,0	268	110	43	44
82	Muratura priva di vuoti	-	40,0	45,1	306,9	23	153	37	38
84	Muratura priva di	-	40,0	71,9	306,9	526	153	41	42

	vuoti								
81	Muratura priva di vuoti	-	20,0	330,5	360,0	727	180	81	82

Macroelementi Fasce

N.	Materiale	Rinforzo	Spessore [cm]	Base [cm]	Altezza [cm]	Baricentro X [cm]	Baricentro Z [cm]	Nodo sinistro	Nodo destro
79	Muratura priva di vuoti	-	40,0	90,0	140,0	90	290	38	44
80	Muratura priva di vuoti	-	40,0	90,0	140,0	445	290	44	42

Parete : 18**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
83	756	377	0	0
46	939	866	0	0
45	742	337	360	1
84	756	377	360	1
47	939	866	360	1

Parete : 19**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
85	1.077	258	0	0
49	1.259	746	0	0
48	1.061	218	360	1
86	1.077	258	360	1
50	1.259	746	360	1

Parete : 20**Nodi 3D**

Nodo	X [cm]	Y [cm]	Z [cm]	Livello
51	-31	693	0	0
53	-23	435	0	0
52	-31	693	360	1
54	-23	435	360	1

(*) Elementi di copertura

Carichi**Carico Sismico:**

Le verifiche allo stato limite ultimo (SLV) e allo stato limite di esercizio (SLD; SLO); devono essere effettuate per la seguente combinazione [Norme Tecniche 2018 §2.5.3].

$$E + G_{k1} + G_{k2} + \sum_i \psi_{2i} Q_{ki}$$

Gli effetti dell'azione sismica saranno valutati tenendo conto delle masse associate ai seguenti carichi gravitazionali:

$$G_{k1} + G_{k2} + \sum_i \Psi_{2i} Q_{ki}$$

Carico Statico:

La verifica allo stato limite ultimo per carichi statici viene condotta con la seguente combinazione dei carichi.

$$\gamma_{G1} G_{k1} + \gamma_{G2} G_{k2} + \gamma_Q \Psi_0 Q_k$$

dove:

E	azione sismica per lo stato limite in esame;
G_{k1}	peso proprio di tutti gli elementi strutturali;
G_{k2}	peso proprio di tutti gli elementi non strutturali;
Q_{ki}	valore caratteristico della azione variabile;
Ψ_2	coefficiente di combinazione;
Ψ_0	coefficiente di combinazione per i carichi variabili
$\gamma_{G1}; \gamma_{G2}; \gamma_Q$	coefficienti parziali di sicurezza

I valori dei vari coefficienti sono scelti in base alla destinazione d'uso dei vari solai secondo quanto indicato nella norma. [Norme Tecniche 2018 Tabella 2.5.1].

Note

CDM : Considera solo contributo dinamico della massa

N. Solaio	Gk1 [daN/m2]	Gk2 [daN/m2]	Qk [daN/m2]	Carico dominante	ψ_0	ψ_2
1	330	100	100	No	0,70	0,30
2	330	100	100	No	0,70	0,30
3	330	100	100	No	0,70	0,30
4	330	100	100	No	0,70	0,30
5	330	100	100	No	0,70	0,30
6	300	100	100	No	0,70	0,30
7	300	100	100	No	0,70	0,30
8	300	100	100	No	0,70	0,30
9	300	100	100	No	0,70	0,30
10	300	100	100	No	0,70	0,30
11	300	100	100	No	0,70	0,30
12	300	100	100	No	0,70	0,30
13	300	100	100	No	0,70	0,30

Spettro da normativa

Gli spettri di risposta, sono definiti in funzione del reticolo di riferimento definito nella “Tabella 1” (parametri spettrali) in allegato alle Norme Tecniche.

Tale tabella fornisce, in funzione delle coordinate geografiche (latitudine, longitudine), i parametri necessari a tracciare lo spettro. I parametri forniti dal reticolo di riferimento sono:

a_g : accelerazione orizzontale massima del terreno;

F_0 : valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale;

T_c^* : periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale.

La trilogia di valori qui descritta, è definita per un periodo di ritorno assegnato (TR), definito in base alla probabilità di superamento di ciascuno degli stati limite.

Tali valori, saranno pertanto definiti per ciascuno degli stati limite esaminati (vedere tabella).

Lo spettro sismico dipende anche dalla “Classe del suolo” e dalla “categoria topografica” (vedere tabella).

	SLC	SLV	SLD	SLO
A_g [m/s ²]	2,53	1,98	0,80	0,64
F_0	2,50	2,59	3,21	2,59
T_c^* [s]	0,35	0,34	0,30	0,29
Tr	1462,00	712,00	75,00	45,00

	SLC	SLV	SLD	SLO
S_s	1,00	1,00	1,00	1,00
T_b [s]	0,12	0,17	0,09	0,11
T_c [s]	0,35	0,52	0,27	0,33
T_d [s]	2,63	2,41	1,93	1,93

Analisi incrementale a collasso (pushover)

Descrizione analisi pushover

Al fine di eseguire le dovute verifiche nei riguardi dell'edificio in questione, si è deciso di procedere con l'esecuzione di una analisi statica non lineare.

Le verifiche richieste si concretizzano nel confronto tra la curva di capacità per le diverse condizioni previste e la domanda di spostamento prevista dalla normativa.

La curva di capacità è individuata mediante un diagramma spostamento-taglio massimo alla base.

Secondo le prescrizioni da normativa, le condizioni di carico da esaminare devono considerare almeno due distribuzioni di forze d'inerzia, ricadenti l'una nelle distribuzioni principali (Gruppo 1) e l'altra nelle distribuzioni secondarie (Gruppo 2) appresso illustrate.

- distribuzione proporzionale alle Forze statiche (Gruppo 1)
- distribuzione uniforme di forze, da intendersi come derivata da una distribuzione uniforme di accelerazioni lungo l'altezza della costruzione (Gruppo 2);

L'analisi, eseguita in controllo di spostamento, procede al calcolo della distribuzione di forze che genera il valore dello spostamento richiesto. L'analisi viene fatta continuare fino a che non si verifica il decadimento del taglio al 80% dal suo valore di picco. Si calcola così il valore dello spostamento massimo alla base dell'edificio generato da quella distribuzione di forze. Questo valore di spostamento costituisce il valore ultimo dell'edificio.

Lo spostamento preso in esame per il tracciamento della curva di capacità è quello di un punto dell'edificio detto nodo di controllo.

La normativa richiede il tracciamento di una curva di capacità bi-lineare di un sistema equivalente (SDOF). Il tracciamento di tale curva deve avvenire con una retta che, passando per l'origine interseca la curva del sistema reale in corrispondenza del 70% del valore di picco; la seconda retta risulterà parallela all'asse degli spostamenti tale da generare l'equivalenza delle aree tra i diagrammi del sistema reale e quello equivalente.

La determinazione della curva relativa al sistema equivalente, permette di determinare il periodo con cui ricavare lo spostamento massimo richiesto dal sisma, secondo gli spettri riportati sulla normativa.

La normativa definisce una eccentricità accidentale del centro delle masse pari al 5% della massima dimensione dell'edificio in direzione perpendicolare al sisma.

In base alla tipologia dell'edificio e alle scelte progettuali che si ritengono più idonee, si può decidere la condizione di carico sismico da prendere in esame.

- Carico sismico: Individua quale delle due tipologie di distribuzioni (proporzionale alle masse o al primo modo) prendere in esame.
- Direzione: Individua la direzione lungo cui viene caricata la struttura (X o Y del sistema globale) dal carico sismico.

Al fine di individuare la condizione di carico sismico più gravosa, si è deciso di eseguire le analisi distinte per tipologia di carico, direzione del sisma e di eventuali eccentricità accidentali.

N.	Dir. sisma	Carico sismico proporzionale	Eccentricità [cm]	Livello	Nodo
1	+X	Uniforme	0,0	0	70
2	+X	Forze statiche	0,0	0	70
3	-X	Uniforme	0,0	0	70
4	-X	Forze statiche	0,0	0	70
5	+Y	Uniforme	0,0	0	70
6	+Y	Forze statiche	0,0	0	70
7	-Y	Uniforme	0,0	0	70
8	-Y	Forze statiche	0,0	0	70
9	+X	Uniforme	70,0	0	70
10	+X	Uniforme	-70,0	0	70
11	+X	Forze statiche	70,0	0	70
12	+X	Forze statiche	-70,0	0	70
13	-X	Uniforme	70,0	0	70
14	-X	Uniforme	-70,0	0	70
15	-X	Forze statiche	70,0	0	70
16	-X	Forze statiche	-70,0	0	70
17	+Y	Uniforme	163,9	0	70
18	+Y	Uniforme	-163,9	0	70
19	+Y	Forze statiche	163,9	0	70
20	+Y	Forze statiche	-163,9	0	70
21	-Y	Uniforme	163,9	0	70
22	-Y	Uniforme	-163,9	0	70
23	-Y	Forze statiche	163,9	0	70
24	-Y	Forze statiche	-163,9	0	70

Risultati

Secondo le indicazioni da normativa si devono eseguire le seguenti verifiche:

Stato limite Collasso (SLC):

$$D_{max}^{SLC} \leq D_u^{SLC}$$

D_{max}^{SLC} : Spostamento massimo richiesto dalla normativa individuato dallo spettro elastico.

D_u^{SLC} : Spostamento massimo offerto dalla struttura corrispondente al minore tra:

- 1) il valore del taglio di base residuo pari all'80% di quello massimo
- 2) il valore corrispondente al raggiungimento della soglia limite della deformazione angolare a SLC in tutti i maschi murari verticali di qualunque livello in una qualunque parete ritenuta significativa ai fini della sicurezza.

$$q^* < 4,0$$

q^* : rapporto tra la forza di risposta elastica e la forza di snervamento del sistema equivalente

Stato limite Vita (SLV):

$$D_{max}^{SLV} \leq D_u^{SLV}$$

D_{max}^{SLV} : Spostamento massimo richiesto dalla normativa individuato dallo spettro elastico.

D_u^{SLV} : Spostamento massimo offerto dalla struttura individuato in corrispondenza di 0,75 $\cdot D_u^{SLC}$.

$$q^* < 3,0$$

q^* : rapporto tra la forza di risposta elastica e la forza di snervamento del sistema equivalente

Stato limite di Danno (SLD):

$$D_{max}^{SLD} \leq D_u^{SLD}$$

D_{max}^{SLD} : Spostamento massimo richiesto dalla normativa, calcolato in base allo spettro sismico definito per lo stato limite di danno.

D_u^{SLD} : Spostamento minore tra:

- 1) quello corrispondente al limite elastico della bilineare equivalente definita a partire dallo spostamento ultimo a SLC
- 2) quello corrispondente al raggiungimento della resistenza massima a taglio in tutti i maschi murari verticali in un qualunque livello di una qualunque parte ritenuta significativa ai fini dell'uso della costruzione (e comunque non prima dello spostamento per il quale si raggiunge un taglio di base pari a 0,7500 del taglio di base massimo)

Stato limite di Operatività (SLO):

$$D_{max}^{SLO} \leq D_u^{SLO}$$

D_{max}^{SLO} : Spostamento massimo richiesto dalla normativa, calcolato in base allo spettro sismico definito per lo stato limite di operatività.

D_u^{SLO} : Spostamento pari a 0,6670 di quello allo SLD.

Vulnerabilità sismica

Per ciascuno stato limite eseguito viene calcolato l'indice di rischio α (α_{SLC} , α_{SLV} , α_{SLD} , α_{SLO}). Questi parametri vengono calcolati come indicato nel seguito:

$$\alpha_{SLC} = \frac{PGA_{CLC}}{PGA_{DLC}} ;$$

$$\alpha_{SLV} = \frac{PGA_{CLV}}{PGA_{DLV}} ;$$

$$\alpha_{SLD} = \frac{PGA_{CLD}}{PGA_{DLD}} ;$$

$$\alpha_{SLO} = \frac{PGA_{CLO}}{PGA_{DLO}} ;$$

Accelerazioni di capacità: l'entità massima delle azioni, considerate nelle combinazioni di progetto previste, che la struttura è capace di sostenere.

- PGA_{CLC} : accelerazione di capacità corrispondente a SLC
- PGA_{CLV} : accelerazione di capacità corrispondente a SLV
- PGA_{CLD} : accelerazione di capacità corrispondente a SLD
- PGA_{CLO} : accelerazione di capacità corrispondente a SLO

Accelerazioni di domanda : Valori di riferimento delle accelerazioni dell'azione sismica

Tali valori vengono definiti a partire dal carico sismico definito nella forma dello spettro.

- PGA_{DLC} : accelerazione di picco al suolo corrispondente a SLC
- PGA_{DLV} : accelerazione di picco al suolo corrispondente a SLV
- PGA_{DLD} : accelerazione di picco al suolo corrispondente a SLD
- PGA_{DLO} : accelerazione di picco al suolo corrispondente a SLO

Dettaglio verifiche

N.	Dir. sisma	Car. sismico prop.	Ecc. [cm]	Dmax SLC [cm]	Du SLC [cm]	q* SLC	SLC ver.	Dmax SLV [cm]	Du SLV [cm]	q* SLV	SLV ver.
1	+X	Uniforme	0,0	0,47	1,54	0,93	Sì	0,27	1,15	0,93	Sì
2	+X	Forze statiche	0,0	0,47	1,54	0,93	Sì	0,27	1,15	0,93	Sì
3	-X	Uniforme	0,0	0,35	0,22	0,81	No	0,18	0,17	0,81	No
4	-X	Forze statiche	0,0	0,35	0,22	0,81	No	0,18	0,17	0,81	No
5	+Y	Uniforme	0,0	0,42	1,78	0,92	Sì	0,17	1,34	0,92	Sì
6	+Y	Forze statiche	0,0	0,42	1,78	0,92	Sì	0,17	1,34	0,92	Sì
7	-Y	Uniforme	0,0	0,28	0,72	0,72	Sì	0,15	0,54	0,72	Sì
8	-Y	Forze statiche	0,0	0,28	0,72	0,72	Sì	0,15	0,54	0,72	Sì
9	+X	Uniforme	70,0	0,40	1,48	0,90	Sì	0,19	1,11	0,90	Sì
10	+X	Uniforme	-70,0	0,50	1,66	0,94	Sì	0,30	1,24	0,94	Sì
11	+X	Forze statiche	70,0	0,40	1,48	0,90	Sì	0,19	1,11	0,90	Sì
12	+X	Forze statiche	-70,0	0,50	1,68	0,94	Sì	0,30	1,26	0,94	Sì
13	-X	Uniforme	70,0	0,35	0,22	0,82	No	0,18	0,17	0,82	No
14	-X	Uniforme	-70,0	0,35	0,24	0,80	No	0,19	0,18	0,80	No
15	-X	Forze statiche	70,0	0,35	0,22	0,82	No	0,18	0,17	0,82	No
16	-X	Forze statiche	-70,0	0,35	0,24	0,80	No	0,19	0,18	0,80	No
17	+Y	Uniforme	163,9	0,43	1,46	0,85	Sì	0,20	1,10	0,85	Sì
18	+Y	Uniforme	-163,9	0,43	1,34	1,06	Sì	0,18	1,01	1,06	Sì
19	+Y	Forze statiche	163,9	0,43	1,46	0,85	Sì	0,20	1,10	0,85	Sì
20	+Y	Forze statiche	-163,9	0,43	1,34	1,06	Sì	0,18	1,01	1,06	Sì
21	-Y	Uniforme	163,9	0,31	0,56	0,76	Sì	0,16	0,42	0,76	Sì
22	-Y	Uniforme	-163,9	0,34	0,66	0,83	Sì	0,15	0,49	0,83	Sì
23	-Y	Forze statiche	163,9	0,32	0,56	0,76	Sì	0,16	0,42	0,76	Sì
24	-Y	Forze statiche	-163,9	0,34	0,66	0,83	Sì	0,15	0,49	0,83	Sì

N.	Dir. sisma	Car. sismico prop.	Ecc. [cm]	Dmax SLD [cm]	Dd SLD [cm]	SLD ver.	Dmax SLO [cm]	Do SLO [cm]	SLO ver.
1	+X	Uniforme	0,0	0,15	0,24	Sì	0,10	0,16	Sì
2	+X	Forze statiche	0,0	0,15	0,24	Sì	0,10	0,16	Sì
3	-X	Uniforme	0,0	0,11	0,20	Sì	0,07	0,13	Sì
4	-X	Forze statiche	0,0	0,11	0,20	Sì	0,07	0,13	Sì
5	+Y	Uniforme	0,0	0,11	0,19	Sì	0,07	0,12	Sì
6	+Y	Forze statiche	0,0	0,11	0,19	Sì	0,07	0,12	Sì
7	-Y	Uniforme	0,0	0,10	0,18	Sì	0,06	0,12	Sì
8	-Y	Forze statiche	0,0	0,10	0,18	Sì	0,06	0,12	Sì
9	+X	Uniforme	70,0	0,11	0,21	Sì	0,07	0,14	Sì

10	+X	Uniforme	-70,0	0,16	0,26	Sì	0,10	0,17	Sì
11	+X	Forze statiche	70,0	0,11	0,21	Sì	0,07	0,14	Sì
12	+X	Forze statiche	-70,0	0,16	0,26	Sì	0,10	0,17	Sì
13	-X	Uniforme	70,0	0,11	0,18	Sì	0,07	0,12	Sì
14	-X	Uniforme	-70,0	0,11	0,20	Sì	0,07	0,13	Sì
15	-X	Forze statiche	70,0	0,11	0,18	Sì	0,07	0,12	Sì
16	-X	Forze statiche	-70,0	0,11	0,20	Sì	0,07	0,13	Sì
17	+Y	Uniforme	163,9	0,12	0,24	Sì	0,08	0,16	Sì
18	+Y	Uniforme	-163,9	0,10	0,14	Sì	0,06	0,09	Sì
19	+Y	Forze statiche	163,9	0,12	0,24	Sì	0,08	0,16	Sì
20	+Y	Forze statiche	-163,9	0,10	0,14	Sì	0,06	0,09	Sì
21	-Y	Uniforme	163,9	0,10	0,21	Sì	0,06	0,14	Sì
22	-Y	Uniforme	-163,9	0,10	0,16	Sì	0,06	0,11	Sì
23	-Y	Forze statiche	163,9	0,10	0,21	Sì	0,07	0,14	Sì
24	-Y	Forze statiche	-163,9	0,10	0,16	Sì	0,06	0,11	Sì

N.	Dir. sisma	Car. sismico prop.	Ecc. [cm]	α SLC	α SLV	α SLD	α SLO
1	+X	Uniforme	0,0	2,226	1,978	1,607	1,660
2	+X	Forze statiche	0,0	2,226	1,978	1,607	1,660
3	-X	Uniforme	0,0	0,809	0,895	1,808	1,868
4	-X	Forze statiche	0,0	0,809	0,895	1,808	1,868
5	+Y	Uniforme	0,0	2,691	2,569	1,717	1,774
6	+Y	Forze statiche	0,0	2,691	2,569	1,717	1,774
7	-Y	Uniforme	0,0	1,580	1,843	1,809	1,869
8	-Y	Forze statiche	0,0	1,580	1,843	1,809	1,869
9	+X	Uniforme	70,0	2,419	2,262	1,872	1,934
10	+X	Uniforme	-70,0	2,290	1,983	1,621	1,675
11	+X	Forze statiche	70,0	2,419	2,262	1,872	1,934
12	+X	Forze statiche	-70,0	2,312	1,996	1,621	1,675
13	-X	Uniforme	70,0	0,824	0,929	1,676	1,731
14	-X	Uniforme	-70,0	0,851	0,934	1,745	1,803
15	-X	Forze statiche	70,0	0,824	0,929	1,676	1,731
16	-X	Forze statiche	-70,0	0,851	0,934	1,745	1,803
17	+Y	Uniforme	163,9	2,189	2,179	1,920	1,983
18	+Y	Uniforme	-163,9	2,231	2,141	1,441	1,493
19	+Y	Forze statiche	163,9	2,189	2,179	1,920	1,983
20	+Y	Forze statiche	-163,9	2,231	2,141	1,441	1,493
21	-Y	Uniforme	163,9	1,328	1,614	2,044	2,111
22	-Y	Uniforme	-163,9	1,421	1,634	1,620	1,674
23	-Y	Forze statiche	163,9	1,320	1,606	2,043	2,111
24	-Y	Forze statiche	-163,9	1,421	1,634	1,620	1,674

Dalla tabella riassuntiva dei risultati sopra riportata si desume che le verifiche risultano non soddisfatte, le analisi più significative sono la n°. 3 e la n°. 23 , rispettivamente per le direzioni X ed Y .

La scelta di tali analisi come analisi “significative” è fatta in base alla ricerca del minore valore del parametro di vulnerabilità sismica.

Considerazioni conclusive sulla sicurezza sismica dell'edificio.

La valutazione della sicurezza sismica è stata effettuata analizzando la risposta sismica globale

della Scuola dell'infanzia "Pietro e Maria Savini" del comune di Petriolo (MC) con analisi statiche non lineari di pushover condotte con riferimento allo SLV ed allo SLD.

Dai risultati ottenuti si può affermare che la struttura in calcestruzzo armato realizzata nell'anno 2006 risulta "adeguata sismicamente" con un indice di rischio per tutte le combinazioni sismiche analizzate sempre maggiore di 1.

Per quanto riguarda l'edificio in muratura il risultato cambia sostanzialmente in derazioni preliminari di discretizzazione del modello.

La differenza sostanziale è nel considerare o meno il piano seminterrato, poiché in quest'ultimo risiedono le vulnerabilità strutturali di maggior importanza.

Di seguito si riportano le tabelle riassuntive che definiscono le grandi differenze di risultato:

Risultati vulnerabilità sismica edificio in muratura e telai in c.a. (intera struttura)

N.	Dir. sisma	Car. sismico prop.	Ecc. [cm]	α SLC	α SLV	α SLD	α SLO
15	-X	Forze statiche	80,0	0,235	0,270	3,086	3,269
19	+Y	Forze statiche	163,9	0,141	0,158	1,704	1,760

Risultati vulnerabilità sismica edificio in muratura e telai in c.a. (solo piano terra)

N.	Dir. sisma	Car. sismico prop.	Ecc. [cm]	α SLC	α SLV	α SLD	α SLO
3	-X	Uniforme	0,0	0,809	0,895	1,808	1,868
23	-Y	Forze statiche	163,9	1,320	1,606	2,043	2,111

Indici di rischio delle combinazioni nelle due direzioni principali.

Osservando tali risultati numerici ed ancor più attentamente il comportamento globale della struttura in muratura e telai in c.a. le problematiche maggiori emergono se si tengono conto delle carenze costruttive, vulnerabilità, irregolarità in pianta ed in altezza dell'intero edificio;

Vulnerabilità specifiche del piano seminterrato:

- Aperture sul fronte principale al piano terra di grandi dimensioni;
- Assenza di cordoli di piano che ripartirebbero i carichi derivanti dai solai sulla muratura portante di scarse caratteristiche meccaniche;
- Muratura portante con alta percentuale di foratura;
- Strutture portanti verticali non perfettamente allineate ai vari piani;

Vulnerabilità specifiche del piano terra:

- Presenza di telai in calcestruzzo armato connessi in maniera non adeguata alla struttura principale in muratura;
- Presenza di muratura portante con doppia parete di blocchi forati e nucleo interno vuoto (tipologia "a cassetta").

Analizzando gli aspetti sopra esposti possiamo concludere affermando che la struttura in calcestruzzo armato è adeguata, mentre la struttura in muratura e telai in c.a. può essere considerata adeguabile ma per arrivare a tale risultato si dovrà intervenire principalmente sulle vulnerabilità presenti al piano seminterrato.

Per l'edificio con struttura mista (muratura e telai in c.a.) si sono valutate due diverse situazioni che hanno prodotto due risultati totalmente opposti, la prima con un indice di rischio molto basso e la seconda con un indice di rischio molto più alto.

In virtù di tali risultati e delle reali condizioni dell'edificio successive all'evento sismico dell'agosto/novembre 2016 si può confermare che il reale comportamento del fabbricato e quindi la reale capacità sismica, è più vicina alla seconda valutazione.

In fase di compilazione della scheda di sintesi della verifica sismica (allegata alla relazione di vulnerabilità sismica) saranno inseriti i valori medi ponderati degli indici di rischio delle due situazioni analizzate per l'edificio misto muratura e telai in c.a.

Il tecnico:

Ing. Marco Mancini