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PROGETTO DEFINITIVO - ESECUTIVO DI "Realizzazione dell'Ampliamento Asilo Nido di Calcara"

CUP: B48H22000220006 - finanziato con Fondi PNRR - Missione 4 " Istruzione e Ricerca"
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Descrizione elaborato:

RELAZIONE DI CALCOLO STRUTTURA IN FONDAZIONE

N. Elaborato:

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Progetto	Errore. Il segnalibro non è definito.
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RELAZIONE DI CALCOLO STRUTTURALE

Premessa

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

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.

Descrizione generale dell'opera

Descrizione generale dell'opera	
Fabbricato ad uso	
Ubicazione	Comune di VALSAMOGGIA - EX BAZZANO (BO) (Regione EMILIA-ROMAGNA)
	Località VALSAMOGGIA - EX BAZZANO (BO)
	Longitudine 11.083, Latitudine 44.505

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

Azioni di progetto sulla costruzione

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

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

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

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

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

\mathbf{u} = vettore spostamenti nodali

\mathbf{F} = vettore forze nodali

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

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

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

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

Modello numerico

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

Tipo di analisi strutturale	
Sismica statica lineare	SI
Sismica dinamica lineare	NO
Sismica statica non lineare (prop. masse)	NO

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

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

Informazioni sul codice di calcolo	
Titolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2021-05-192)
Produttore-Distributore:	2S.I. Software e Servizi per l'Ingegneria s.r.l., Ferrara
Codice Licenza:	Licenza dsi6427

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

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

Modellazione della geometria e proprietà meccaniche:	
nodi	150
elementi D2 (per aste, travi, pilastri...)	0
elementi D3 (per pareti, platee, gusci...)	123
elementi solaio	0
elementi solidi	0
Dimensione del modello strutturale [cm]:	
X min =	0.00
Xmax =	476.00
Ymin =	0.00
Ymax =	2389.00
Zmin =	0.00
Zmax =	0.00

Strutture verticali:	
Elementi di tipo asta	NO
Pilastrì	NO
Pareti	NO
Setti (a comportamento membranale)	NO
Strutture non verticali:	
Elementi di tipo asta	NO
Travi	NO
Gusci	NO
Membrane	NO
Orizzontamenti:	
Solai con la proprietà piano rigido	NO
Solai senza la proprietà piano rigido	NO
Tipo di vincoli:	
Nodi vincolati rigidamente	NO
Nodi vincolati elasticamente	NO
Nodi con isolatori sismici	NO
Fondazioni puntuali (plinti/plinti su palo)	NO
Fondazioni di tipo trave	NO
Fondazioni di tipo platea	SI
Fondazioni con elementi solidi	NO

Modellazione delle azioni

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

Combinazioni e/o percorsi di carico

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

Combinazioni dei casi di carico	
APPROCCIO PROGETTUALE	Approccio 2
Tensioni ammissibili	NO
SLU	SI
SLV (SLU con sisma)	SI

SLC	NO
SLD	SI
SLO	NO
SLU GEO A2 (per approccio 1)	NO
SLU EQU	NO
Combinazione caratteristica (rara)	NO
Combinazione frequente	NO
Combinazione quasi permanente (SLE)	NO
SLA (accidentale quale incendio)	NO

Principali risultati

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

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

per l'analisi modale:

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

deformate e sollecitazioni:

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

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

per i dati in ingresso:

- modello solido della struttura
- numerazione di nodi e ed elementi
- configurazioni di carico statiche
- configurazioni di carico sismiche con baricentri delle masse e eccentricità

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

- configurazioni deformate
- diagrammi e involuppi delle azioni interne

- mappe delle tensioni
- reazioni vincolari
- mappe delle pressioni sul terreno

per il progetto-verifica degli elementi:

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

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

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

Verifiche agli stati limite ultimi

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

Verifiche agli stati limite di esercizio

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

RELAZIONE SUI MATERIALI

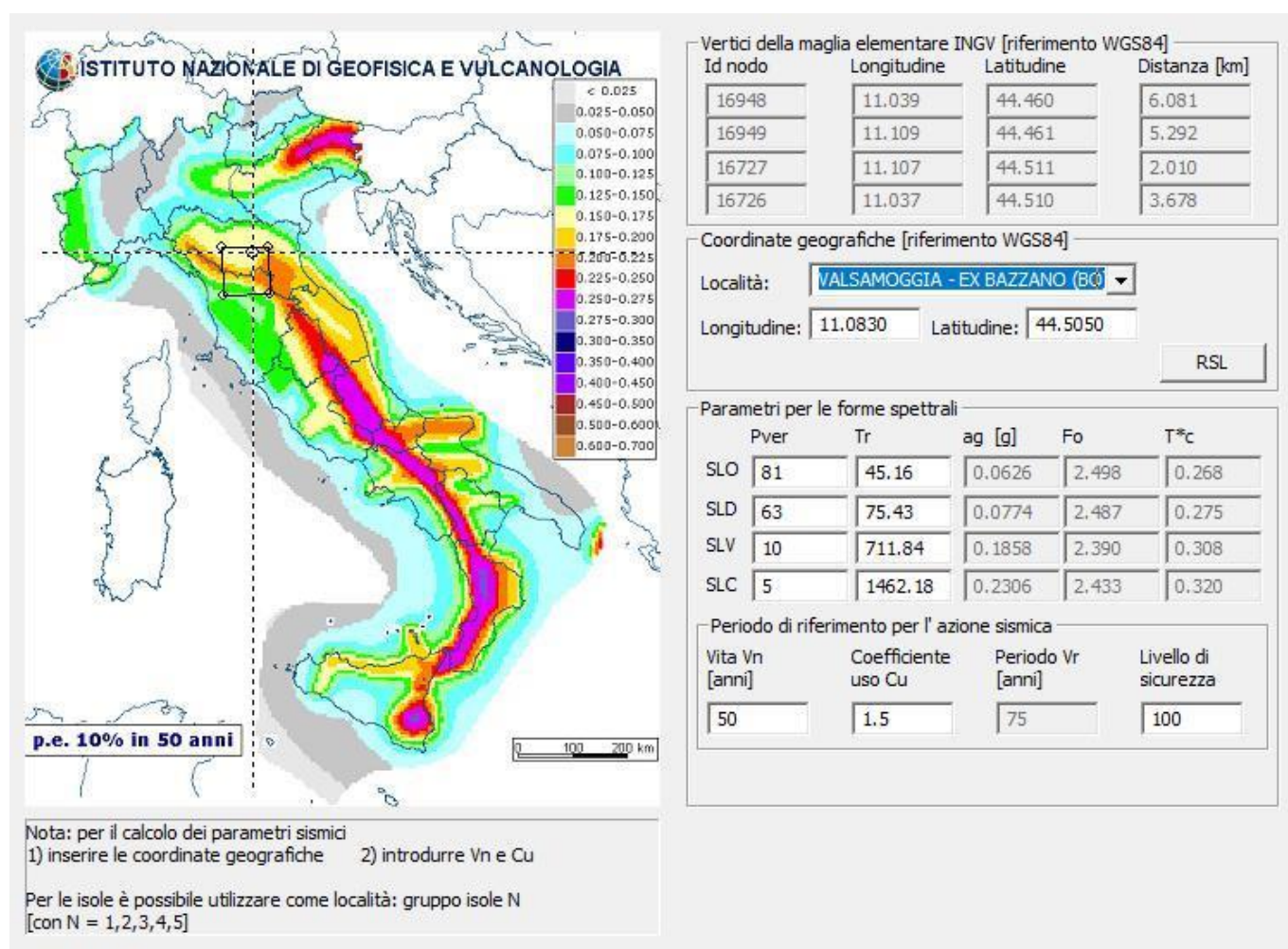
Il capitolo Materiali riporta informazioni esaustive relative all'elenco dei materiali impiegati e loro modalità di posa in opera e ai valori di calcolo.

NORMATIVA DI RIFERIMENTO

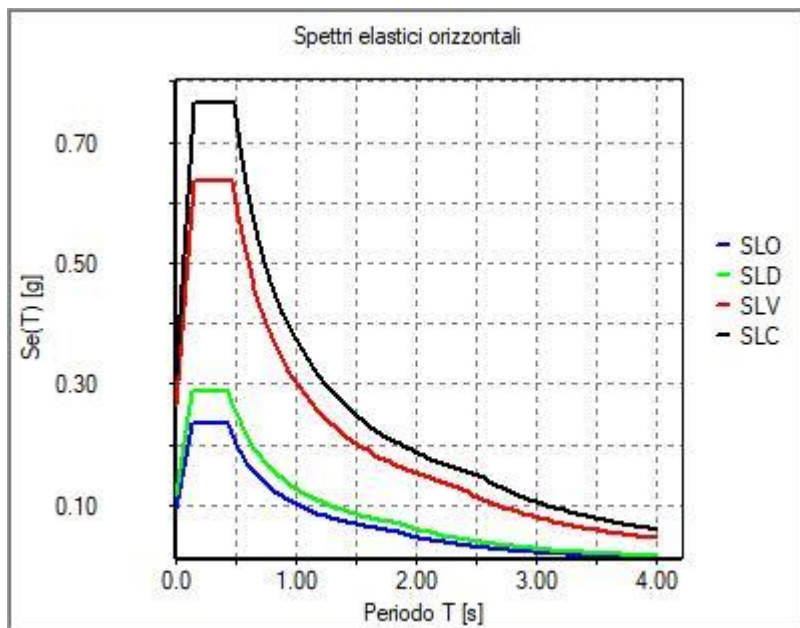
1. D.Min. Infrastrutture Min. Interni e Prot. Civile 17 Gennaio 2018 e allegate "Norme tecniche per le costruzioni".
2. Circolare 21/01/19, n. 7 C.S.LL.PP. "Istruzioni per l'applicazione dell'aggiornamento delle Norme Tecniche delle Costruzioni di cui al decreto ministeriale 17 gennaio 2018"
3. D.Min. Infrastrutture e trasporti 14 Settembre 2005 e allegate "Norme tecniche per le costruzioni".
4. D.M. LL.PP. 9 Gennaio 1996 "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle strutture in cemento armato, normale e precompresso e per le strutture metalliche".
5. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>".
6. D.M. LL.PP. 16 Gennaio 1996 "Norme tecniche per le costruzioni in zone sismiche".
7. Circolare 4/07/96, n.156AA.GG./STC. istruzioni per l'applicazione delle "Norme tecniche relative ai <<Criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi>>" di cui al D.M. 16/01/96.
8. Circolare 10/04/97, n.65AA.GG. istruzioni per l'applicazione delle "Norme tecniche per le costruzioni in zone sismiche" di cui al D.M. 16/01/96.
9. D.M. LL.PP. 20 Novembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
10. Circolare 4 Gennaio 1989 n. 30787 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo degli edifici in muratura e per il loro consolidamento".
11. D.M. LL.PP. 11 Marzo 1988 "Norme tecniche riguardanti le indagini sui terreni e sulle rocce, la stabilità dei pendii naturali e delle scarpate, i criteri generali e le prescrizioni per la progettazione, l'esecuzione e il collaudo delle opere di sostegno delle terre e delle opere di fondazione".
12. D.M. LL.PP. 3 Dicembre 1987 "Norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate".
13. UNI 9502 - Procedimento analitico per valutare la resistenza al fuoco degli elementi costruttivi di conglomerato cementizio armato, normale e precompresso - edizione maggio 2001
14. Ordinanza del Presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003 "Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di normative tecniche per le costruzioni in zona sismica" e successive modificazioni e integrazioni.
15. UNI EN 1990:2006 13/04/2006 Eurocodice 0 - Criteri generali di progettazione strutturale.
16. UNI EN 1991-1-1:2004 01/08/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-1: Azioni in generale - Pesi per unità di volume, pesi propri e sovraccarichi per gli edifici.
17. UNI EN 1991-2:2005 01/03/2005 Eurocodice 1 - Azioni sulle strutture - Parte 2: Carichi da traffico sui ponti.
18. UNI EN 1991-1-3:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-3: Azioni in generale - Carichi da neve.
19. UNI EN 1991-1-4:2005 01/07/2005 Eurocodice 1 - Azioni sulle strutture - Parte 1-4: Azioni in generale - Azioni del vento.
20. UNI EN 1991-1-5:2004 01/10/2004 Eurocodice 1 - Azioni sulle strutture - Parte 1-5: Azioni in generale - Azioni termiche.
21. UNI EN 1992-1-1:2005 24/11/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
22. UNI EN 1992-1-2:2005 01/04/2005 Eurocodice 2 - Progettazione delle strutture di calcestruzzo - Parte 1-2: Regole generali - Progettazione strutturale contro l'incendio.
23. UNI EN 1993-1-1:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-1: Regole generali e regole per gli edifici.
24. UNI EN 1993-1-8:2005 01/08/2005 Eurocodice 3 - Progettazione delle strutture di acciaio - Parte 1-8: Progettazione dei collegamenti.
25. UNI EN 1994-1-1:2005 01/03/2005 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.
26. UNI EN 1994-2:2006 12/01/2006 Eurocodice 4 - Progettazione delle strutture composte acciaio-calcestruzzo - Parte 2: Regole generali e regole per i ponti.
27. UNI EN 1995-1-1:2005 01/02/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 1-1: Regole generali - Regole comuni e regole per gli edifici.
28. UNI EN 1995-2:2005 01/01/2005 Eurocodice 5 - Progettazione delle strutture di legno - Parte 2: Ponti.
29. UNI EN 1996-1-1:2006 26/01/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 1-1: Regole generali per strutture di muratura armata e non armata.
30. UNI EN 1996-3:2006 09/03/2006 Eurocodice 6 - Progettazione delle strutture di muratura - Parte 3: Metodi di calcolo semplificato per strutture di muratura non armata.

31. UNI EN 1997-1:2005 01/02/2005 Eurocodice 7 - Progettazione geotecnica - Parte 1: Regole generali.
32. UNI EN 1998-1:2005 01/03/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 1: Regole generali, azioni sismiche e regole per gli edifici.
33. UNI EN 1998-3:2005 01/08/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 3: Valutazione e adeguamento degli edifici.
34. UNI EN 1998-5:2005 01/01/2005 Eurocodice 8 - Progettazione delle strutture per la resistenza sismica - Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.

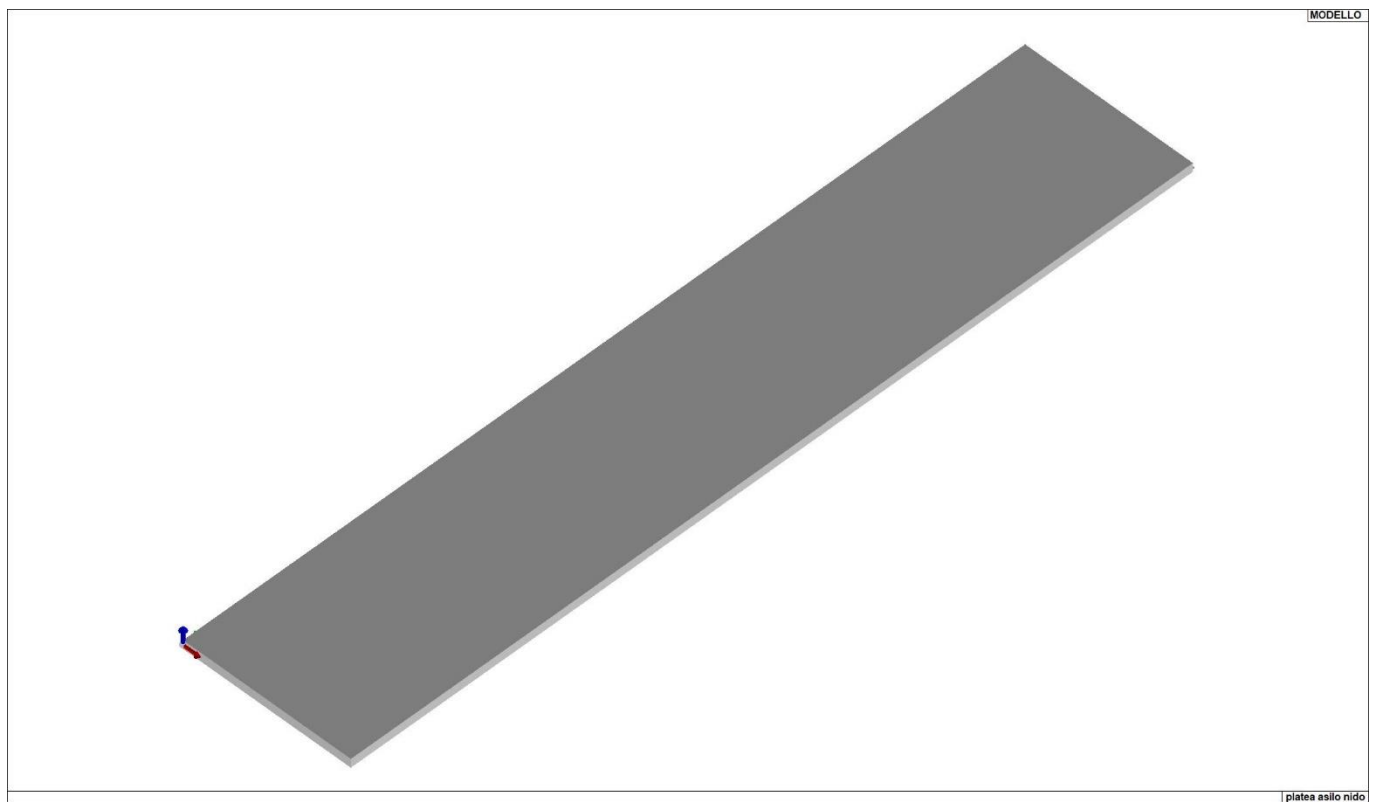
NOTA il capitolo "normativa di riferimento": riporta l'elenco delle normative implementate nel software. Le norme utilizzate per la struttura oggetto della presente relazione sono indicate nel precedente capitolo "RELAZIONE DI CALCOLO STRUTTURALE" "ANALISI E VERIFICHE SVOLTE CON L'AUSILIO DI CODICI DI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



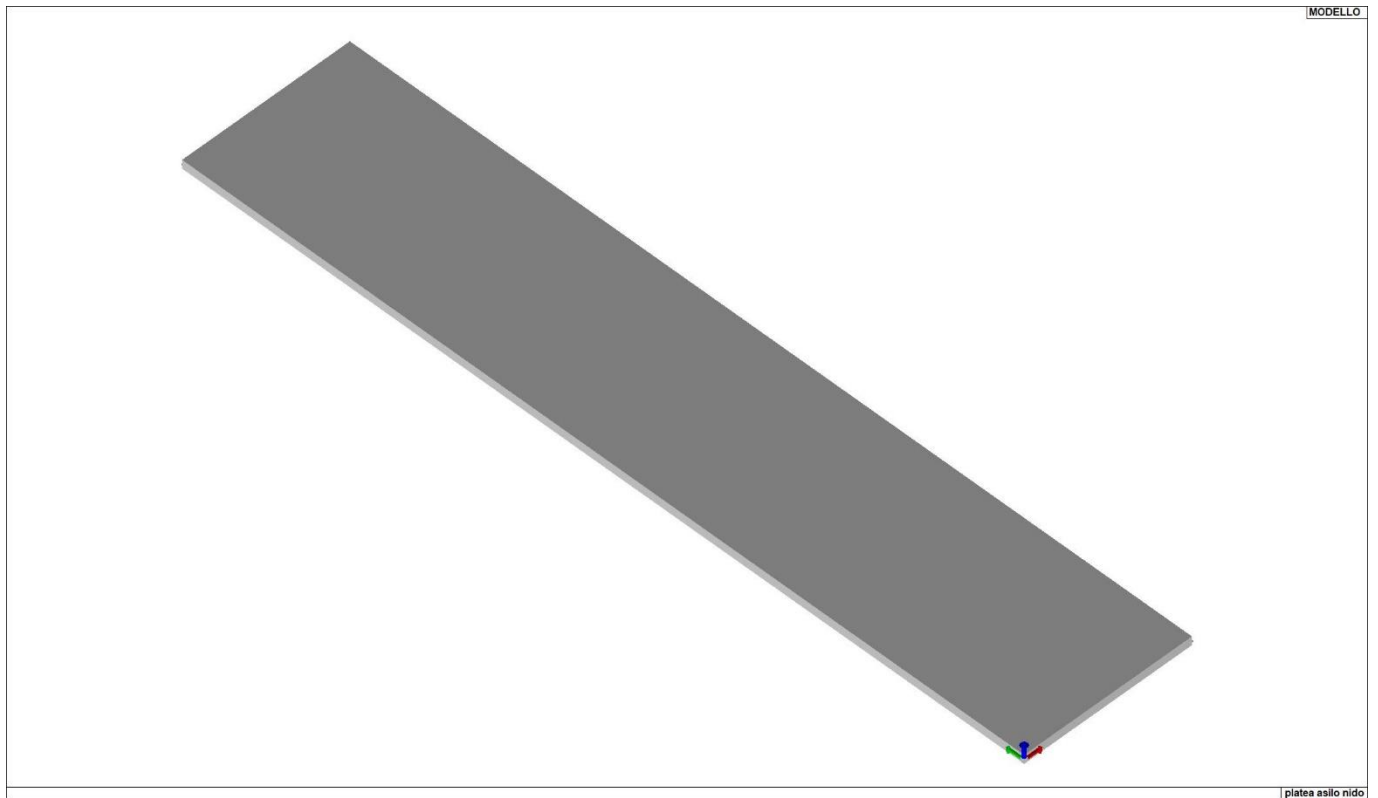
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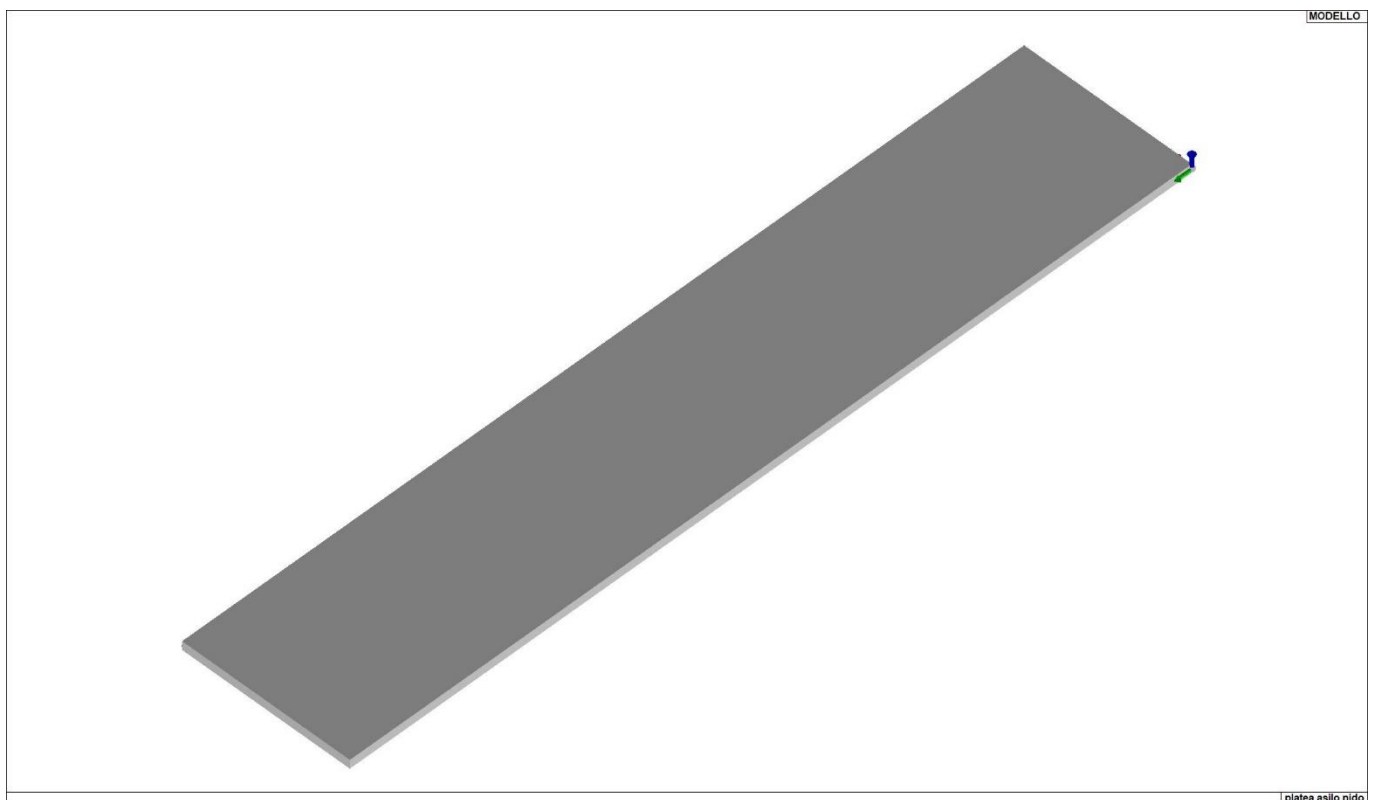
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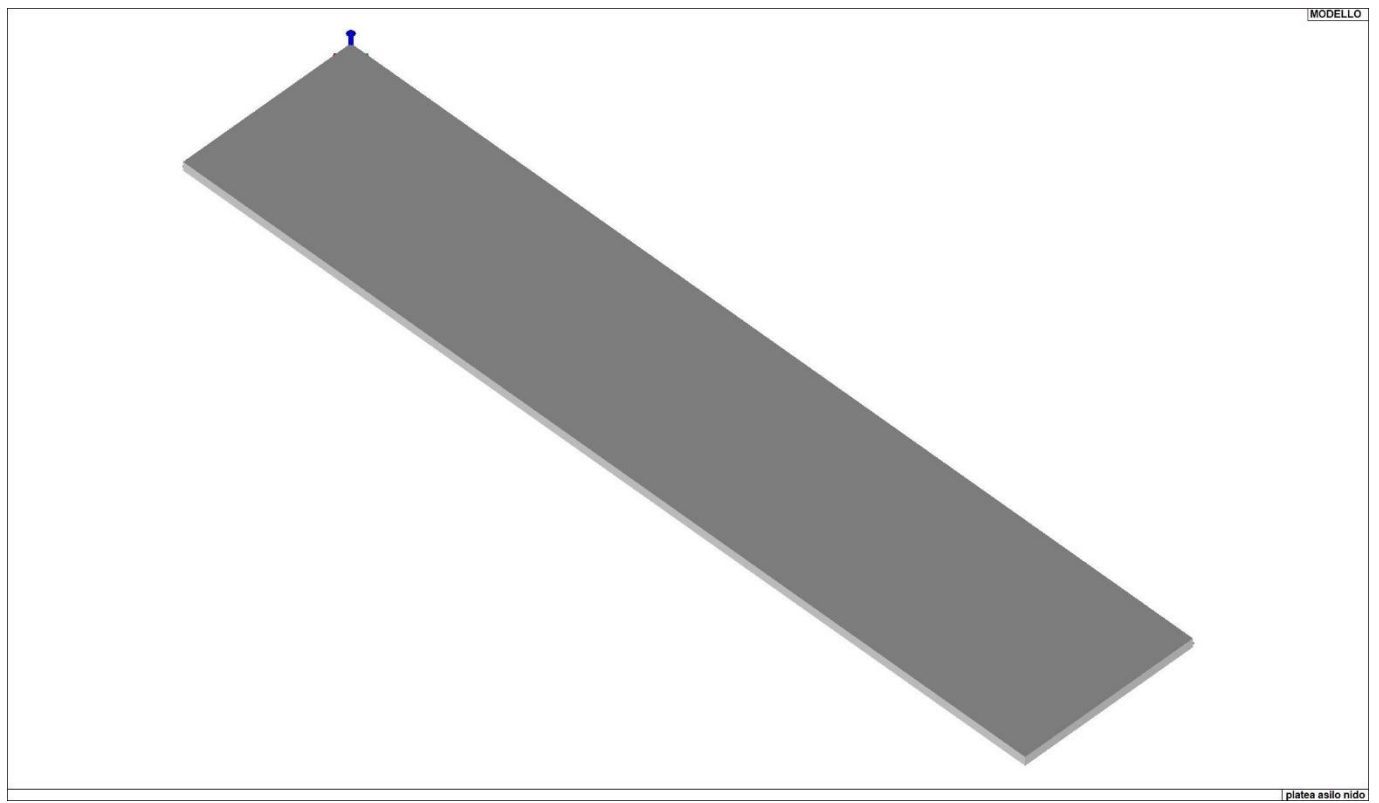
01_INT_VISTA_SOLIDA_001



01_INT_VISTA_SOLIDA_002



01_INT_VISTA_SOLIDA_003



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:

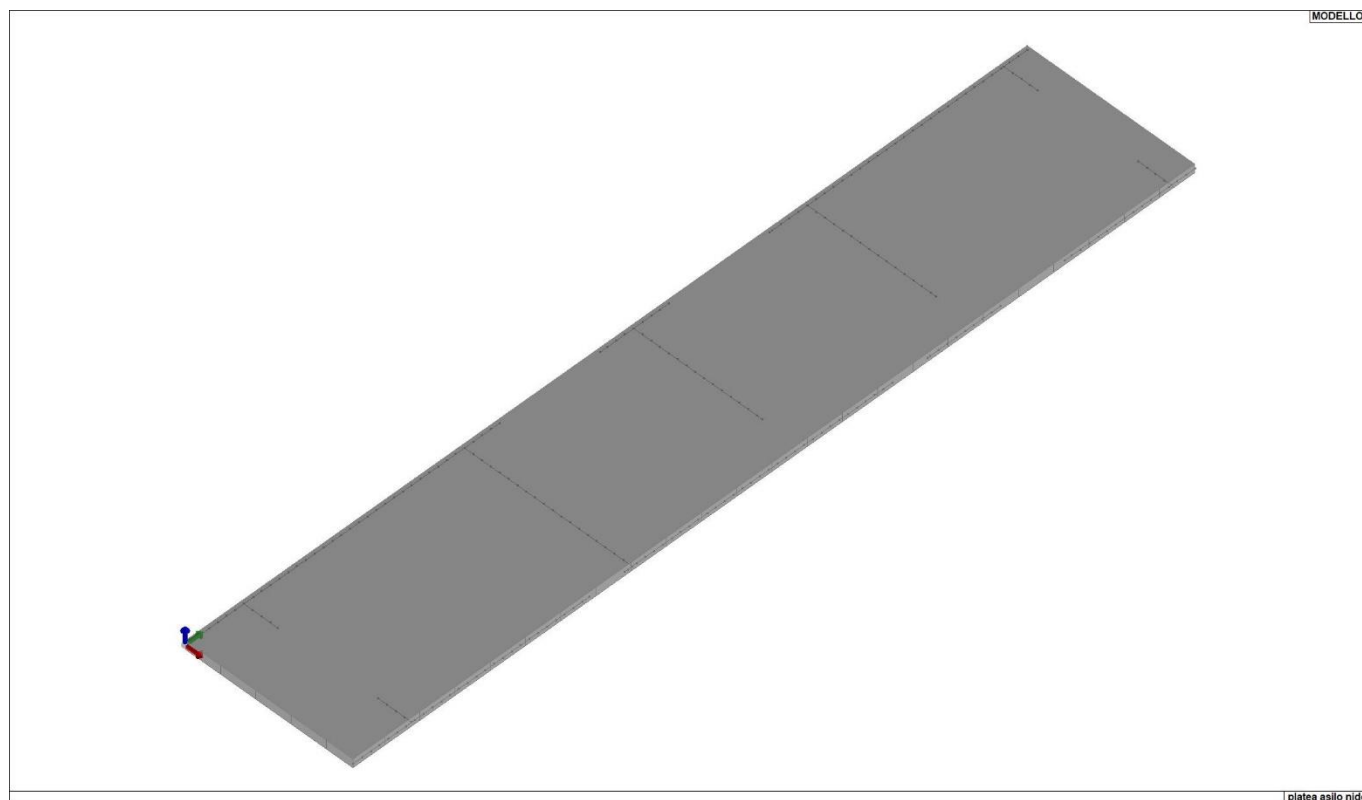
1	c.a.	Resistenza Rc	resistenza a compressione cubica
		Resistenza f_{ctm}	resistenza media a trazione semplice
		Coefficiente α_{sb}	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress block
2	acciaio	Tensione f_t	Valore della tensione di rottura
		Tensione f_y	Valore della tensione di snervamento
		Resistenza f_d	Resistenza di calcolo per SL CNR-UNI 10011
		Resistenza $f_d (>40)$	Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm
		Tensione ammissibile	Tensione ammissibile CNR-UNI 10011
		Tensione ammissibile(>40)	Tensione ammissibile CNR-UNI 10011 per spessori > 40mm
3	muratura		
	a		

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

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

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

[illegible]



11_MOD_MATERIALI_D3

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

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

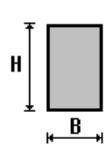
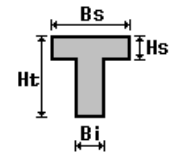
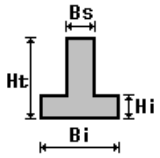
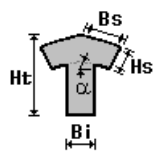
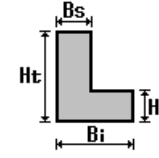
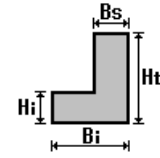
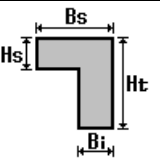
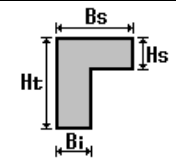
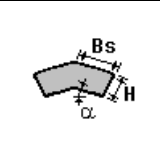
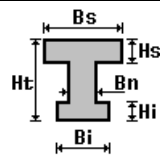
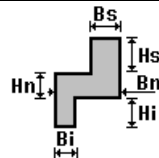
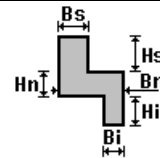
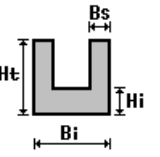
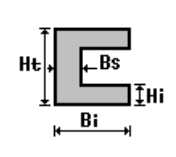
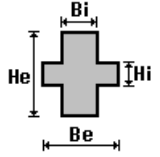
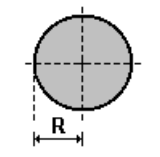
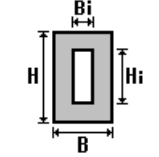
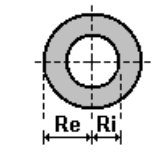
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

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

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

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

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

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

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

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

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

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

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3

MODELLAZIONE STRUTTURA: NODI

LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.

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

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

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

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

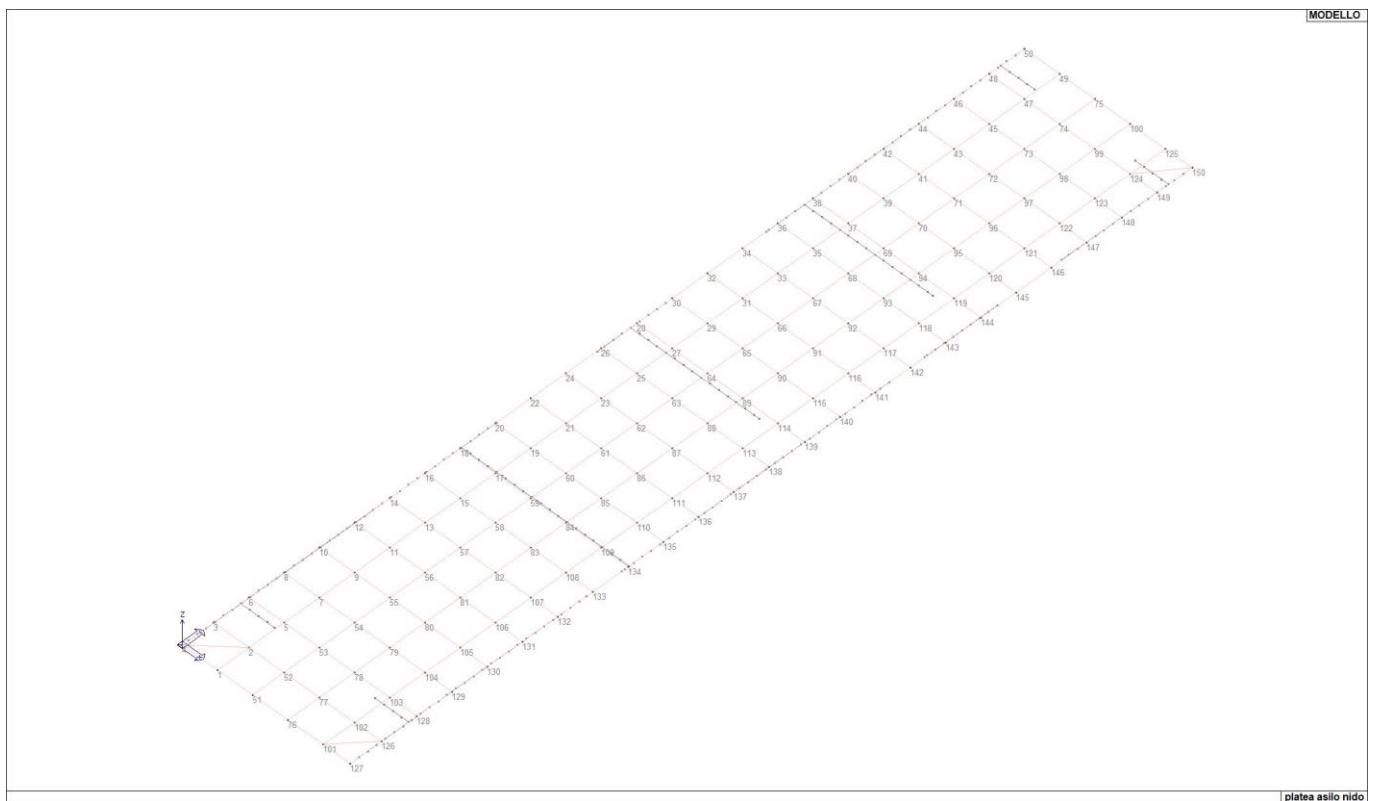
Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito,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

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

TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	100.0	0.0	0.0	2	100.0	89.0	0.0	3	0.0	89.0	0.0
4	0.0	0.0	0.0	5	100.0	189.0	0.0	6	0.0	189.0	0.0
7	100.0	289.0	0.0	8	0.0	289.0	0.0	9	100.0	389.0	0.0
10	0.0	389.0	0.0	11	100.0	489.0	0.0	12	0.0	489.0	0.0
13	100.0	589.0	0.0	14	0.0	589.0	0.0	15	100.0	689.0	0.0
16	0.0	689.0	0.0	17	100.0	789.0	0.0	18	0.0	789.0	0.0
19	100.0	889.0	0.0	20	0.0	889.0	0.0	21	100.0	989.0	0.0
22	0.0	989.0	0.0	23	100.0	1089.0	0.0	24	0.0	1089.0	0.0
25	100.0	1189.0	0.0	26	0.0	1189.0	0.0	27	100.0	1289.0	0.0
28	0.0	1289.0	0.0	29	100.0	1389.0	0.0	30	0.0	1389.0	0.0
31	100.0	1489.0	0.0	32	0.0	1489.0	0.0	33	100.0	1589.0	0.0
34	0.0	1589.0	0.0	35	100.0	1689.0	0.0	36	0.0	1689.0	0.0
37	100.0	1789.0	0.0	38	0.0	1789.0	0.0	39	100.0	1889.0	0.0
40	0.0	1889.0	0.0	41	100.0	1989.0	0.0	42	0.0	1989.0	0.0
43	100.0	2089.0	0.0	44	0.0	2089.0	0.0	45	100.0	2189.0	0.0
46	0.0	2189.0	0.0	47	100.0	2289.0	0.0	48	0.0	2289.0	0.0
49	100.0	2389.0	0.0	50	0.0	2389.0	0.0	51	200.0	0.0	0.0
52	200.0	89.0	0.0	53	200.0	189.0	0.0	54	200.0	289.0	0.0
55	200.0	389.0	0.0	56	200.0	489.0	0.0	57	200.0	589.0	0.0
58	200.0	689.0	0.0	59	200.0	789.0	0.0	60	200.0	889.0	0.0

61	200.0	989.0	0.0	62	200.0	1089.0	0.0	63	200.0	1189.0	0.0
64	200.0	1289.0	0.0	65	200.0	1389.0	0.0	66	200.0	1489.0	0.0
67	200.0	1589.0	0.0	68	200.0	1689.0	0.0	69	200.0	1789.0	0.0
70	200.0	1889.0	0.0	71	200.0	1989.0	0.0	72	200.0	2089.0	0.0
73	200.0	2189.0	0.0	74	200.0	2289.0	0.0	75	200.0	2389.0	0.0
76	300.0	0.0	0.0	77	300.0	89.0	0.0	78	300.0	189.0	0.0
79	300.0	289.0	0.0	80	300.0	389.0	0.0	81	300.0	489.0	0.0
82	300.0	589.0	0.0	83	300.0	689.0	0.0	84	300.0	789.0	0.0
85	300.0	889.0	0.0	86	300.0	989.0	0.0	87	300.0	1089.0	0.0
88	300.0	1189.0	0.0	89	300.0	1289.0	0.0	90	300.0	1389.0	0.0
91	300.0	1489.0	0.0	92	300.0	1589.0	0.0	93	300.0	1689.0	0.0
94	300.0	1789.0	0.0	95	300.0	1889.0	0.0	96	300.0	1989.0	0.0
97	300.0	2089.0	0.0	98	300.0	2189.0	0.0	99	300.0	2289.0	0.0
100	300.0	2389.0	0.0	101	400.0	0.0	0.0	102	400.0	89.0	0.0
103	400.0	189.0	0.0	104	400.0	289.0	0.0	105	400.0	389.0	0.0
106	400.0	489.0	0.0	107	400.0	589.0	0.0	108	400.0	689.0	0.0
109	400.0	789.0	0.0	110	400.0	889.0	0.0	111	400.0	989.0	0.0
112	400.0	1089.0	0.0	113	400.0	1189.0	0.0	114	400.0	1289.0	0.0
115	400.0	1389.0	0.0	116	400.0	1489.0	0.0	117	400.0	1589.0	0.0
118	400.0	1689.0	0.0	119	400.0	1789.0	0.0	120	400.0	1889.0	0.0
121	400.0	1989.0	0.0	122	400.0	2089.0	0.0	123	400.0	2189.0	0.0
124	400.0	2289.0	0.0	125	400.0	2389.0	0.0	126	476.0	89.0	0.0
127	476.0	0.0	0.0	128	476.0	189.0	0.0	129	476.0	289.0	0.0
130	476.0	389.0	0.0	131	476.0	489.0	0.0	132	476.0	589.0	0.0
133	476.0	689.0	0.0	134	476.0	789.0	0.0	135	476.0	889.0	0.0
136	476.0	989.0	0.0	137	476.0	1089.0	0.0	138	476.0	1189.0	0.0
139	476.0	1289.0	0.0	140	476.0	1389.0	0.0	141	476.0	1489.0	0.0
142	476.0	1589.0	0.0	143	476.0	1689.0	0.0	144	476.0	1789.0	0.0
145	476.0	1889.0	0.0	146	476.0	1989.0	0.0	147	476.0	2089.0	0.0
148	476.0	2189.0	0.0	149	476.0	2289.0	0.0	150	476.0	2389.0	0.0



14_MOD_NUMERAZIONE_NODI

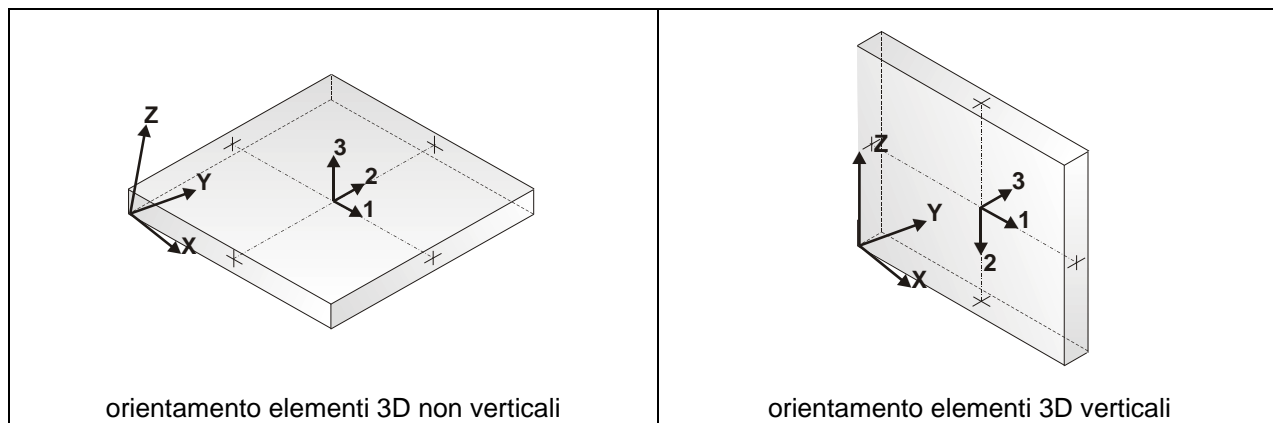
MODELLAZIONE STRUTTURA: ELEMENTI SHELL

LEGENDA TABELLA DATI SHELL

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

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

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

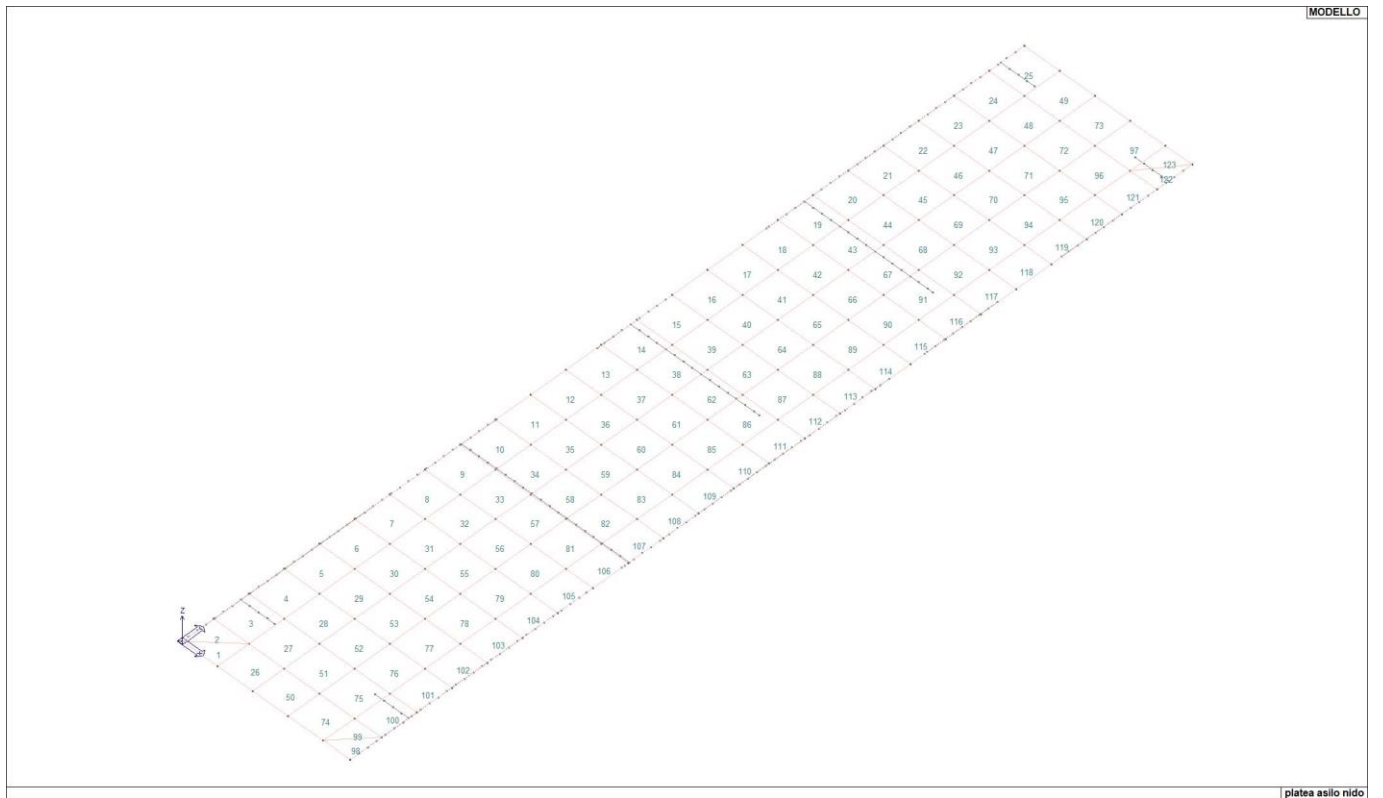


In particolare per ogni elemento viene indicato in tabella:

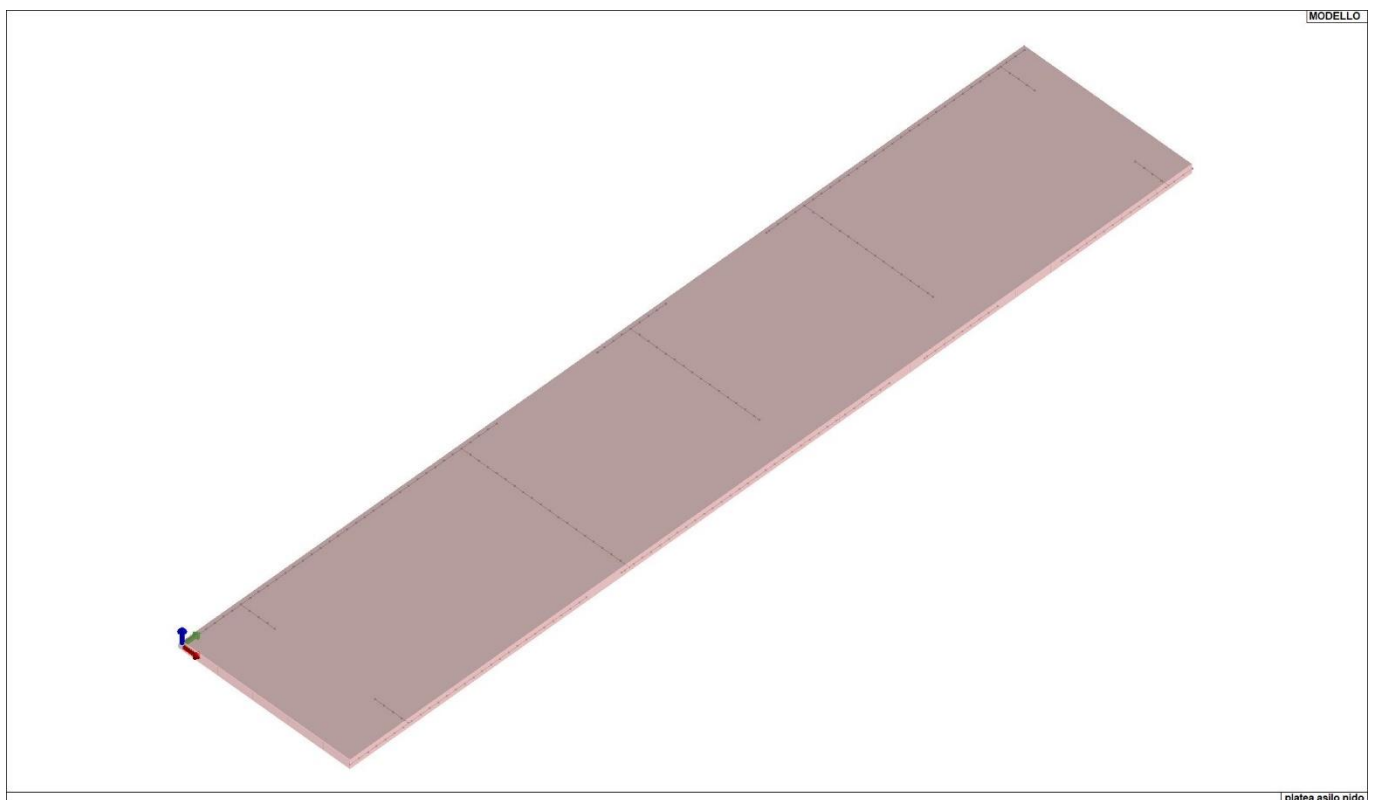
Elem.	numero dell'elemento
Note	codice di comportamento: <i>Guscio</i> (elemento guscio in elevazione non verticale) <i>Guscio fond.</i> (elemento guscio su suolo elastico) <i>Setto</i> (elemento guscio in elevazione verticale) <i>Membrana</i> (elemento guscio con comportamento membranale)
Nodo I (J,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

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore cm	Svincolo	Wink V daN/cm3	Wink O daN/cm3
1	Guscio fond.	4	1	2		1	1	25.0		1.00	1.00
2	Guscio fond.	3	4	2		1	1	25.0		1.00	1.00
3	Guscio fond.	3	2	5	6	1	1	25.0		1.00	1.00
4	Guscio fond.	6	5	7	8	1	1	25.0		1.00	1.00
5	Guscio fond.	8	7	9	10	1	1	25.0		1.00	1.00
6	Guscio fond.	10	9	11	12	1	1	25.0		1.00	1.00
7	Guscio fond.	12	11	13	14	1	1	25.0		1.00	1.00
8	Guscio fond.	14	13	15	16	1	1	25.0		1.00	1.00
9	Guscio fond.	16	15	17	18	1	1	25.0		1.00	1.00
10	Guscio fond.	18	17	19	20	1	1	25.0		1.00	1.00
11	Guscio fond.	20	19	21	22	1	1	25.0		1.00	1.00
12	Guscio fond.	22	21	23	24	1	1	25.0		1.00	1.00
13	Guscio fond.	24	23	25	26	1	1	25.0		1.00	1.00
14	Guscio fond.	26	25	27	28	1	1	25.0		1.00	1.00
15	Guscio fond.	28	27	29	30	1	1	25.0		1.00	1.00
16	Guscio fond.	30	29	31	32	1	1	25.0		1.00	1.00
17	Guscio fond.	32	31	33	34	1	1	25.0		1.00	1.00
18	Guscio fond.	34	33	35	36	1	1	25.0		1.00	1.00
19	Guscio fond.	36	35	37	38	1	1	25.0		1.00	1.00
20	Guscio fond.	38	37	39	40	1	1	25.0		1.00	1.00
21	Guscio fond.	40	39	41	42	1	1	25.0		1.00	1.00
22	Guscio fond.	42	41	43	44	1	1	25.0		1.00	1.00
23	Guscio fond.	44	43	45	46	1	1	25.0		1.00	1.00
24	Guscio fond.	46	45	47	48	1	1	25.0		1.00	1.00
25	Guscio fond.	48	47	49	50	1	1	25.0		1.00	1.00
26	Guscio fond.	1	51	52	2	1	1	25.0		1.00	1.00
27	Guscio fond.	2	52	53	5	1	1	25.0		1.00	1.00
28	Guscio fond.	5	53	54	7	1	1	25.0		1.00	1.00
29	Guscio fond.	7	54	55	9	1	1	25.0		1.00	1.00
30	Guscio fond.	9	55	56	11	1	1	25.0		1.00	1.00
31	Guscio fond.	11	56	57	13	1	1	25.0		1.00	1.00
32	Guscio fond.	13	57	58	15	1	1	25.0		1.00	1.00
33	Guscio fond.	15	58	59	17	1	1	25.0		1.00	1.00
34	Guscio fond.	17	59	60	19	1	1	25.0		1.00	1.00
35	Guscio fond.	19	60	61	21	1	1	25.0		1.00	1.00
36	Guscio fond.	21	61	62	23	1	1	25.0		1.00	1.00
37	Guscio fond.	23	62	63	25	1	1	25.0		1.00	1.00
38	Guscio fond.	25	63	64	27	1	1	25.0		1.00	1.00
39	Guscio fond.	27	64	65	29	1	1	25.0		1.00	1.00
40	Guscio fond.	29	65	66	31	1	1	25.0		1.00	1.00
41	Guscio fond.	31	66	67	33	1	1	25.0		1.00	1.00
42	Guscio fond.	33	67	68	35	1	1	25.0		1.00	1.00
43	Guscio fond.	35	68	69	37	1	1	25.0		1.00	1.00
44	Guscio fond.	37	69	70	39	1	1	25.0		1.00	1.00
45	Guscio fond.	39	70	71	41	1	1	25.0		1.00	1.00
46	Guscio fond.	41	71	72	43	1	1	25.0		1.00	1.00
47	Guscio fond.	43	72	73	45	1	1	25.0		1.00	1.00
48	Guscio fond.	45	73	74	47	1	1	25.0		1.00	1.00
49	Guscio fond.	47	74	75	49	1	1	25.0		1.00	1.00
50	Guscio fond.	51	76	77	52	1	1	25.0		1.00	1.00
51	Guscio fond.	52	77	78	53	1	1	25.0		1.00	1.00
52	Guscio fond.	53	78	79	54	1	1	25.0		1.00	1.00
53	Guscio fond.	54	79	80	55	1	1	25.0		1.00	1.00
54	Guscio fond.	55	80	81	56	1	1	25.0		1.00	1.00
55	Guscio fond.	56	81	82	57	1	1	25.0		1.00	1.00
56	Guscio fond.	57	82	83	58	1	1	25.0		1.00	1.00
57	Guscio fond.	58	83	84	59	1	1	25.0		1.00	1.00
58	Guscio fond.	59	84	85	60	1	1	25.0		1.00	1.00
59	Guscio fond.	60	85	86	61	1	1	25.0		1.00	1.00
60	Guscio fond.	61	86	87	62	1	1	25.0		1.00	1.00
61	Guscio fond.	62	87	88	63	1	1	25.0		1.00	1.00
62	Guscio fond.	63	88	89	64	1	1	25.0		1.00	1.00
63	Guscio fond.	64	89	90	65	1	1	25.0		1.00	1.00
64	Guscio fond.	65	90	91	66	1	1	25.0		1.00	1.00
65	Guscio fond.	66	91	92	67	1	1	25.0		1.00	1.00
66	Guscio fond.	67	92	93	68	1	1	25.0		1.00	1.00
67	Guscio fond.	68	93	94	69	1	1	25.0		1.00	1.00
68	Guscio fond.	69	94	95	70	1	1	25.0		1.00	1.00
69	Guscio fond.	70	95	96	71	1	1	25.0		1.00	1.00
70	Guscio fond.	71	96	97	72	1	1	25.0		1.00	1.00
71	Guscio fond.	72	97	98	73	1	1	25.0		1.00	1.00
72	Guscio fond.	73	98	99	74	1	1	25.0		1.00	1.00
73	Guscio fond.	74	99	100	75	1	1	25.0		1.00	1.00

74Guscio fond.	76	101	102	77	1	1	25.0	1.00	1.00
75Guscio fond.	77	102	103	78	1	1	25.0	1.00	1.00
76Guscio fond.	78	103	104	79	1	1	25.0	1.00	1.00
77Guscio fond.	79	104	105	80	1	1	25.0	1.00	1.00
78Guscio fond.	80	105	106	81	1	1	25.0	1.00	1.00
79Guscio fond.	81	106	107	82	1	1	25.0	1.00	1.00
80Guscio fond.	82	107	108	83	1	1	25.0	1.00	1.00
81Guscio fond.	83	108	109	84	1	1	25.0	1.00	1.00
82Guscio fond.	84	109	110	85	1	1	25.0	1.00	1.00
83Guscio fond.	85	110	111	86	1	1	25.0	1.00	1.00
84Guscio fond.	86	111	112	87	1	1	25.0	1.00	1.00
85Guscio fond.	87	112	113	88	1	1	25.0	1.00	1.00
86Guscio fond.	88	113	114	89	1	1	25.0	1.00	1.00
87Guscio fond.	89	114	115	90	1	1	25.0	1.00	1.00
88Guscio fond.	90	115	116	91	1	1	25.0	1.00	1.00
89Guscio fond.	91	116	117	92	1	1	25.0	1.00	1.00
90Guscio fond.	92	117	118	93	1	1	25.0	1.00	1.00
91Guscio fond.	93	118	119	94	1	1	25.0	1.00	1.00
92Guscio fond.	94	119	120	95	1	1	25.0	1.00	1.00
93Guscio fond.	95	120	121	96	1	1	25.0	1.00	1.00
94Guscio fond.	96	121	122	97	1	1	25.0	1.00	1.00
95Guscio fond.	97	122	123	98	1	1	25.0	1.00	1.00
96Guscio fond.	98	123	124	99	1	1	25.0	1.00	1.00
97Guscio fond.	99	124	125	100	1	1	25.0	1.00	1.00
98Guscio fond.	101	127	126		1	1	25.0	1.00	1.00
99Guscio fond.	102	101	126		1	1	25.0	1.00	1.00
100Guscio fond.	102	126	128	103	1	1	25.0	1.00	1.00
101Guscio fond.	103	128	129	104	1	1	25.0	1.00	1.00
102Guscio fond.	104	129	130	105	1	1	25.0	1.00	1.00
103Guscio fond.	105	130	131	106	1	1	25.0	1.00	1.00
104Guscio fond.	106	131	132	107	1	1	25.0	1.00	1.00
105Guscio fond.	107	132	133	108	1	1	25.0	1.00	1.00
106Guscio fond.	108	133	134	109	1	1	25.0	1.00	1.00
107Guscio fond.	109	134	135	110	1	1	25.0	1.00	1.00
108Guscio fond.	110	135	136	111	1	1	25.0	1.00	1.00
109Guscio fond.	111	136	137	112	1	1	25.0	1.00	1.00
110Guscio fond.	112	137	138	113	1	1	25.0	1.00	1.00
111Guscio fond.	113	138	139	114	1	1	25.0	1.00	1.00
112Guscio fond.	114	139	140	115	1	1	25.0	1.00	1.00
113Guscio fond.	115	140	141	116	1	1	25.0	1.00	1.00
114Guscio fond.	116	141	142	117	1	1	25.0	1.00	1.00
115Guscio fond.	117	142	143	118	1	1	25.0	1.00	1.00
116Guscio fond.	118	143	144	119	1	1	25.0	1.00	1.00
117Guscio fond.	119	144	145	120	1	1	25.0	1.00	1.00
118Guscio fond.	120	145	146	121	1	1	25.0	1.00	1.00
119Guscio fond.	121	146	147	122	1	1	25.0	1.00	1.00
120Guscio fond.	122	147	148	123	1	1	25.0	1.00	1.00
121Guscio fond.	123	148	149	124	1	1	25.0	1.00	1.00
122Guscio fond.	124	149	150		1	1	25.0	1.00	1.00
123Guscio fond.	125	124	150		1	1	25.0	1.00	1.00



16_MOD_NUMERAZIONE_D3



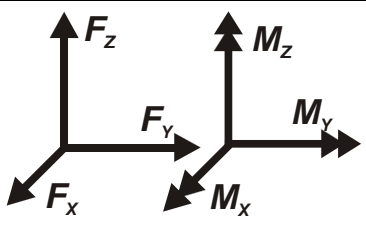
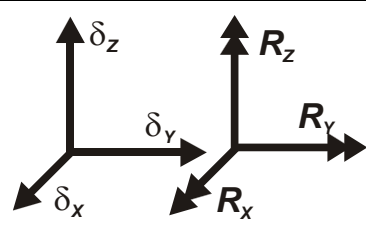
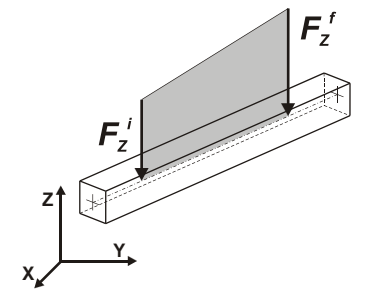
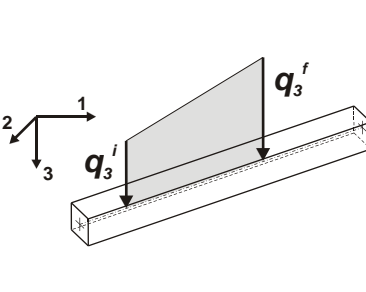
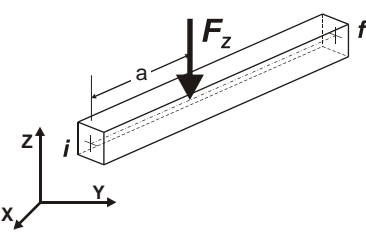
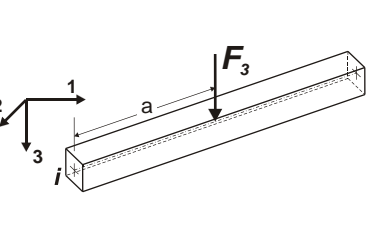
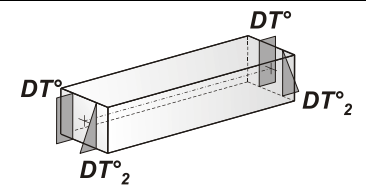
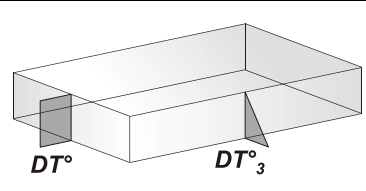
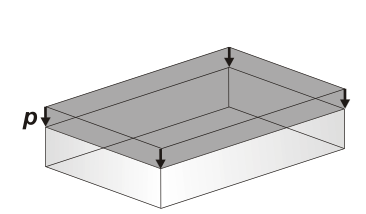
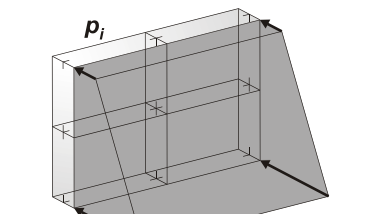
16_MOD_SPESSORI_D3

MODELLAZIONE DELLE AZIONI

LEGENDA TABELLA DATI AZIONI

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

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

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

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:

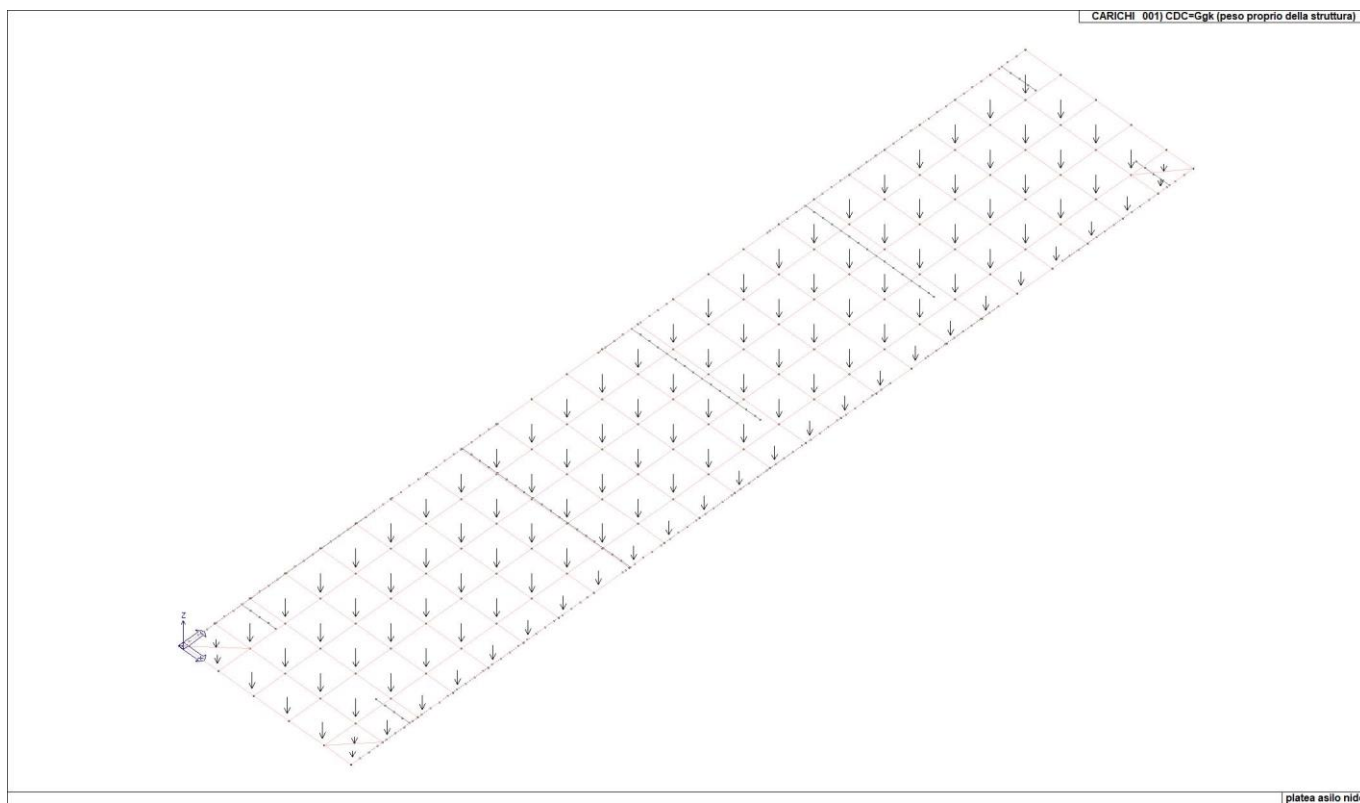
Numero Tipo e Sigla identificativa, Valore di riferimento del caso di carico (se previsto).

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.

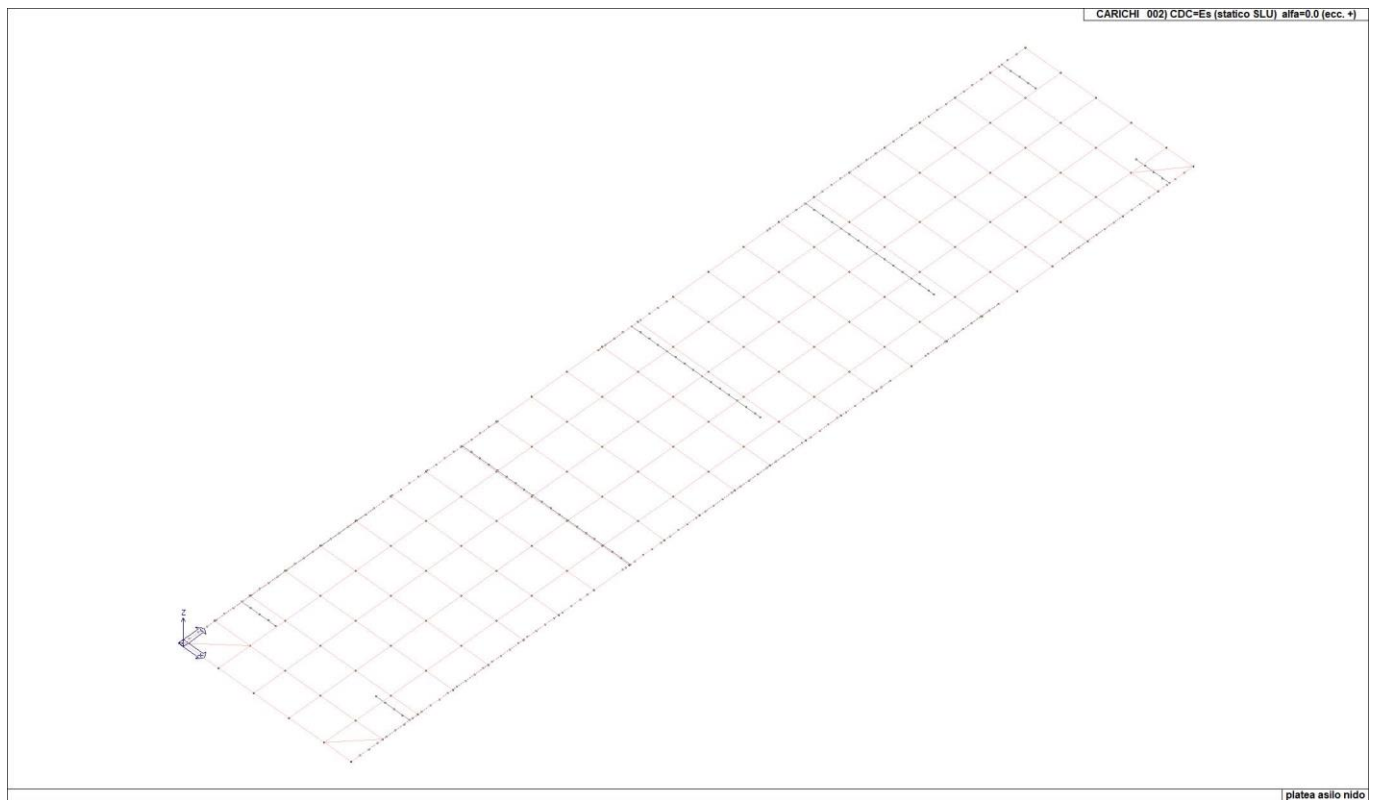
Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione 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	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. +)	partecipazione:1.00 per 1 CDC=Ggk (peso proprio della struttura)
3	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. -)	come precedente CDC sismico
4	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. +)	come precedente CDC sismico
5	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. -)	come precedente CDC sismico
6	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. +)	come precedente CDC sismico
7	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. -)	come precedente CDC sismico

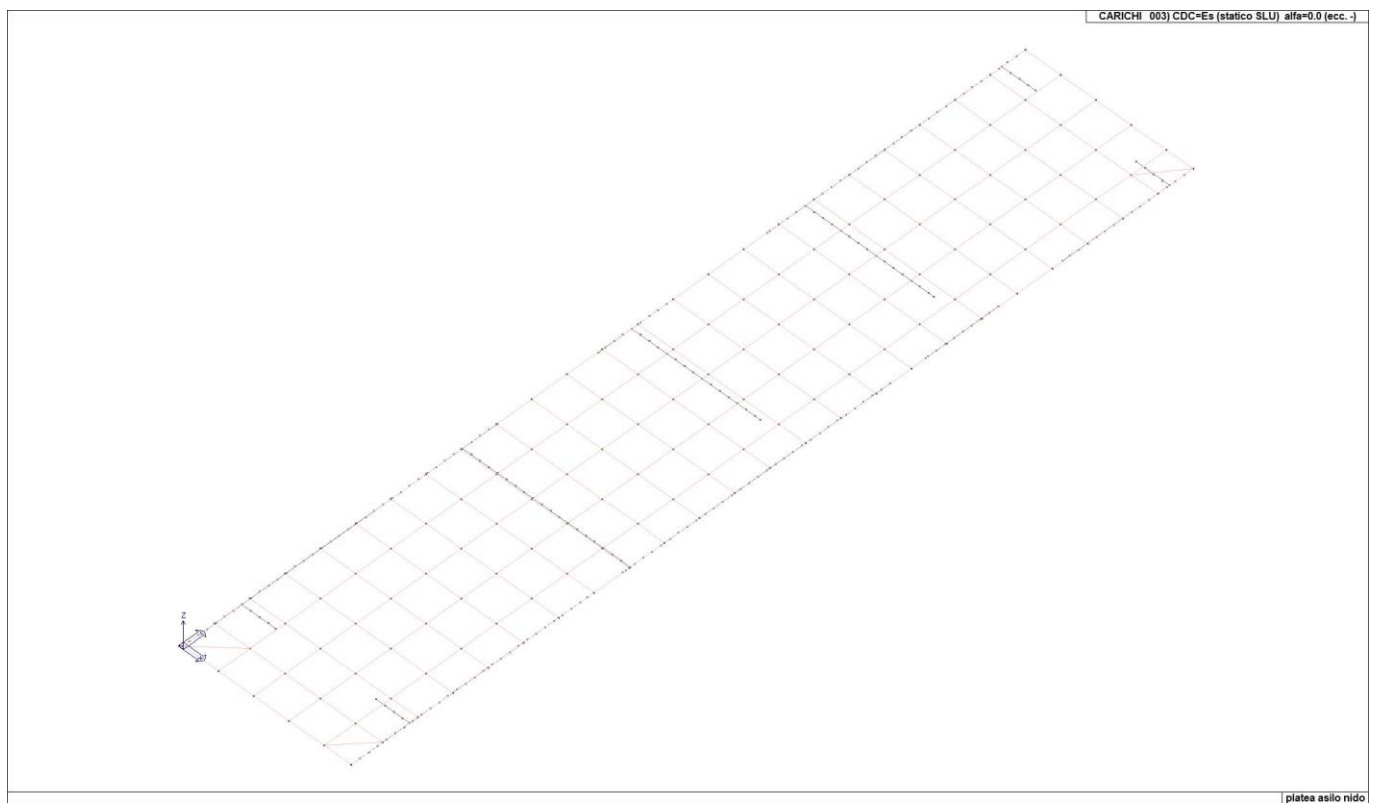
CDC	Tipo	Sigla Id	Note
8	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. +)	come precedente CDC sismico
9	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. -)	come precedente CDC sismico



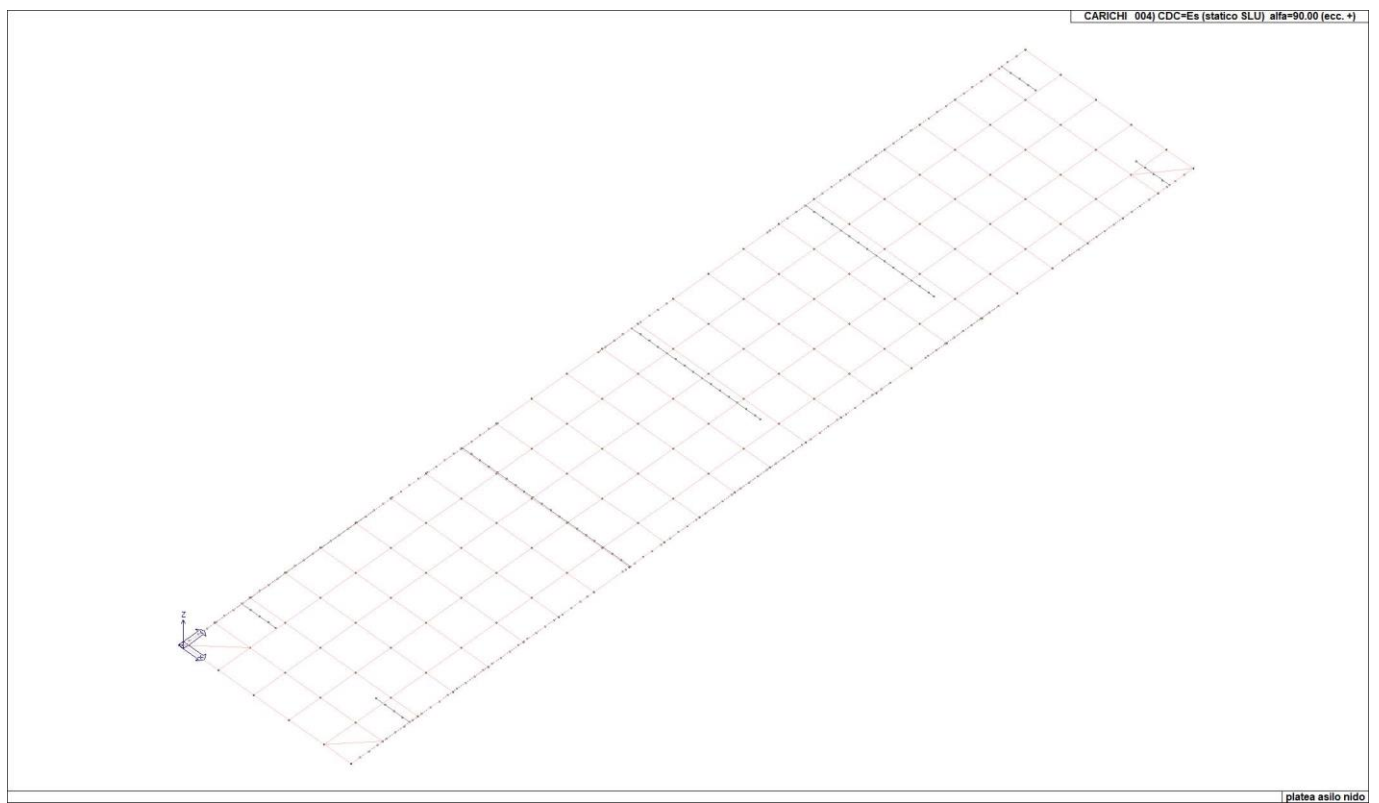
22_CDC_001_CDC=Ggk (peso proprio della struttura)



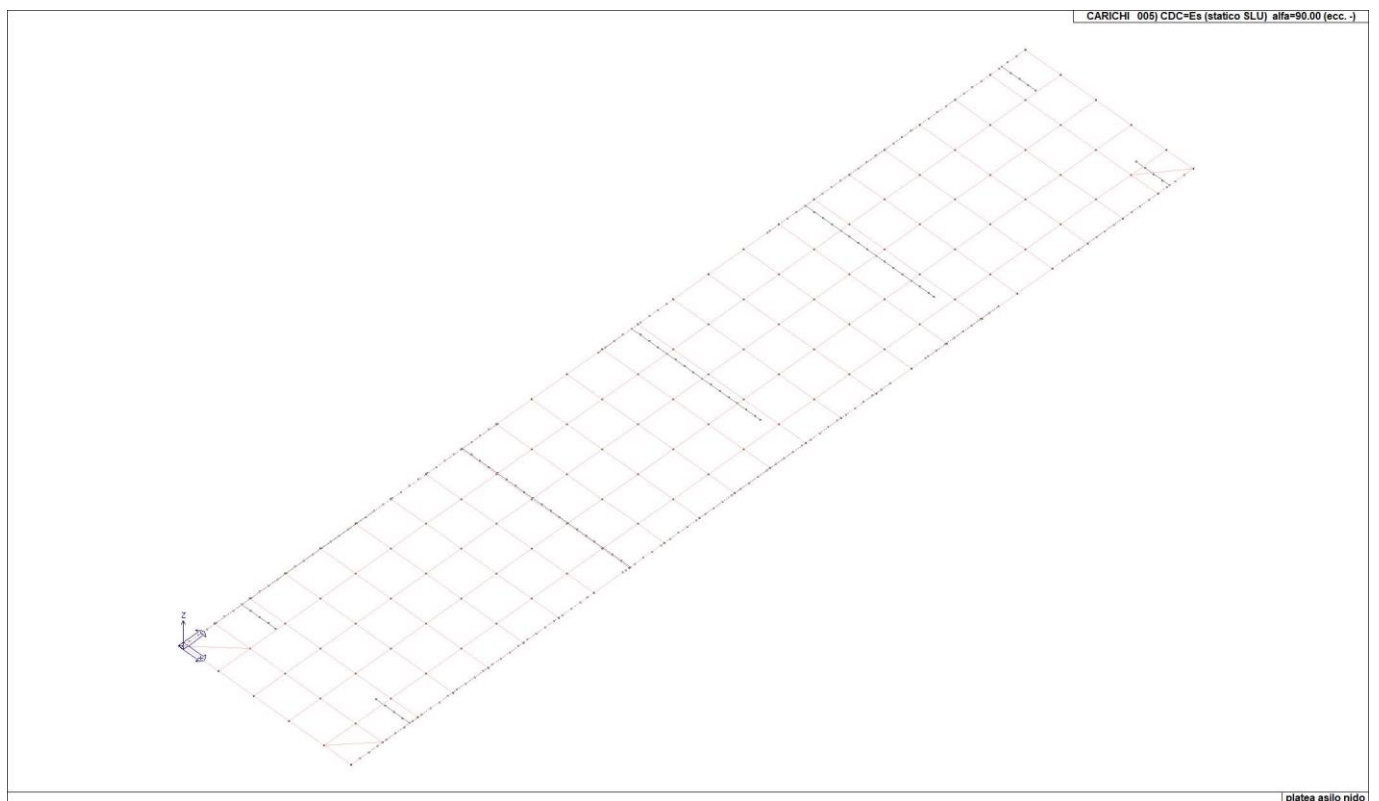
22_CDC_002_CDC=Es (statico SLU) alfa=0.0 (ecc. +)



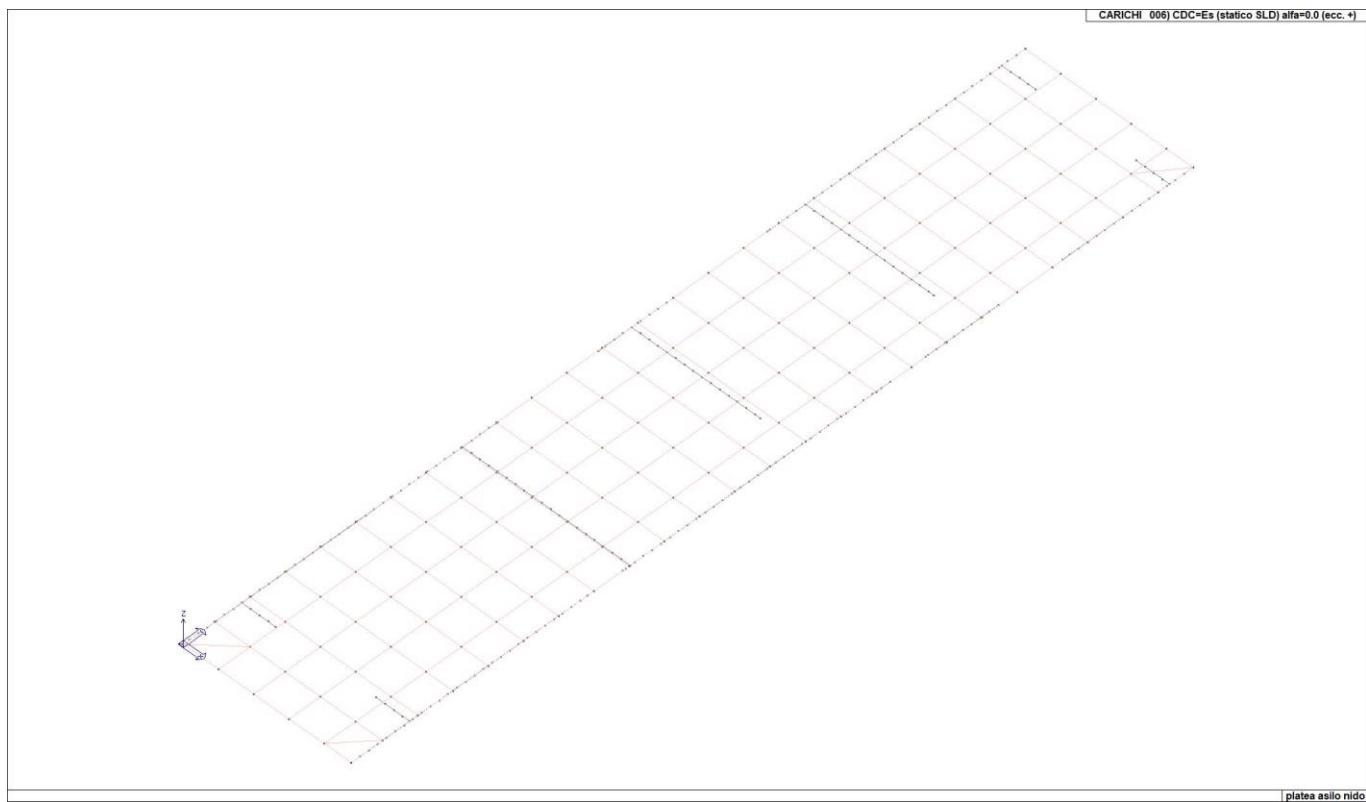
22_CDC_003_CDC=Es (statico SLU) alfa=0.0 (ecc. -)



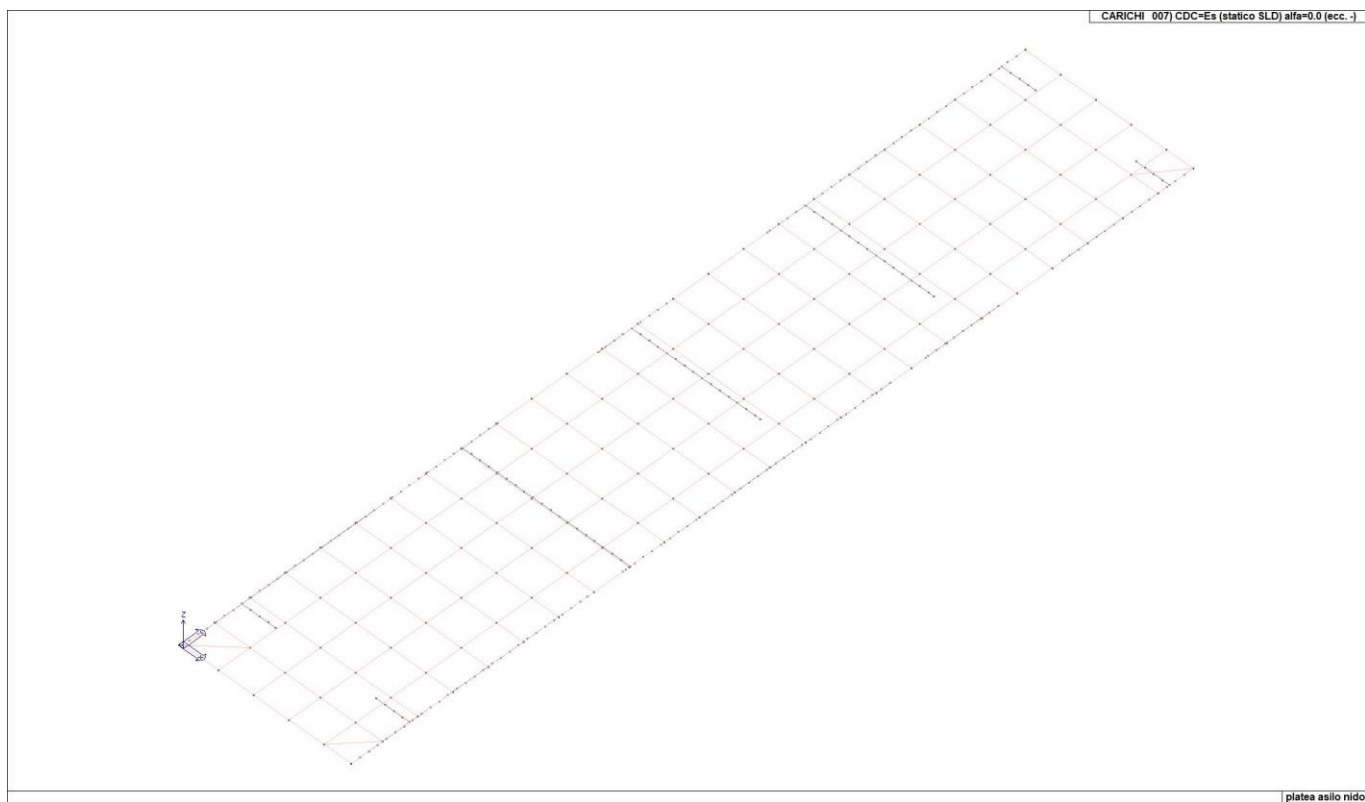
22_CDC_004_CDC=Es (statico SLU) alfa=90.00 (ecc. +)



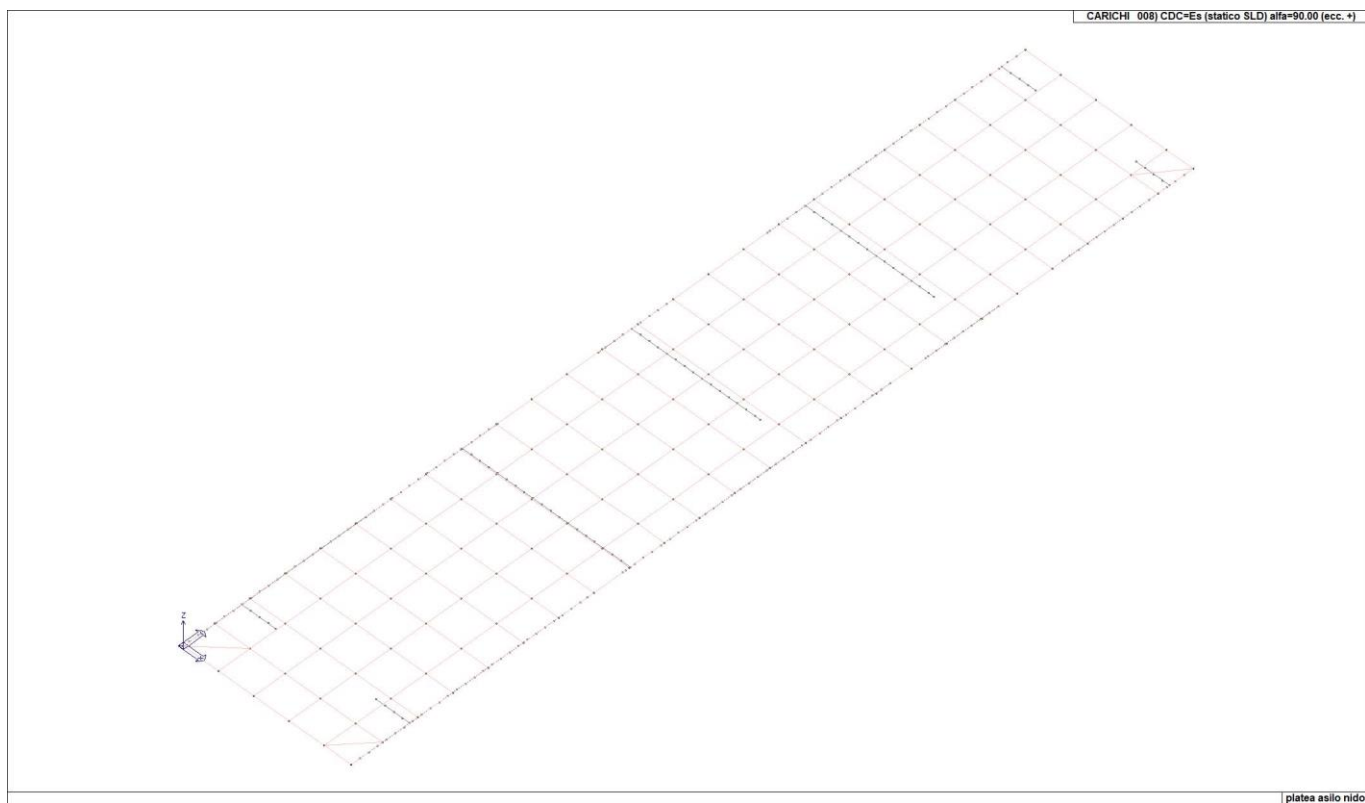
22_CDC_005_CDC=Es (statico SLU) alfa=90.00 (ecc. -)



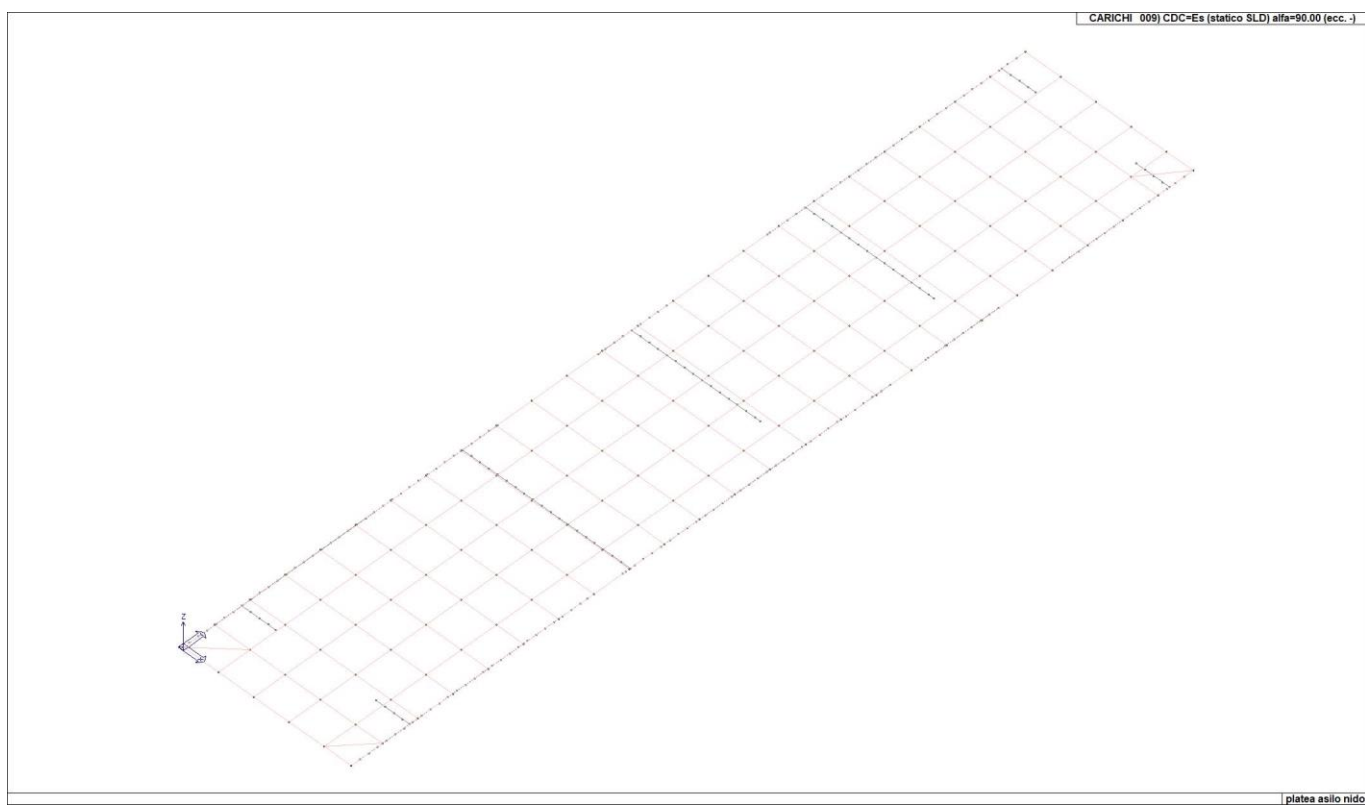
22_CDC_006_CDC=Es (statico SLD) alfa=0.0 (ecc. +)



22_CDC_007_CDC=Es (statico SLD) alfa=0.0 (ecc. -)



22_CDC_008_CDC=Es (statico SLD) alfa=90.00 (ecc. +)



22_CDC_009_CDC=Es (statico SLD) alfa=90.00 (ecc. -)

DEFINIZIONE DELLE COMBINAZIONI

LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente. Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

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

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

Combinazione fondamentale SLU

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

Combinazione caratteristica (rara) SLE

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

Combinazione frequente SLE

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

Combinazione quasi permanente SLE

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

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

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

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

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

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	ψ_0	ψ_1	ψ_2
Categoria A residenziali	0,70	0,50	0,30
Categoria B uffici	0,70	0,50	0,30
Categoria C ambienti suscettibili di affollamento	0,70	0,70	0,60
Categoria D ambienti ad uso commerciale	0,70	0,70	0,60
Categoria E biblioteche, archivi, magazzini,...	1,00	0,90	0,80
Categoria F Rimesse e parcheggi (autoveicoli $\leq 30\text{kN}$)	0,70	0,70	0,60
Categoria G Rimesse e parcheggi (autoveicoli $> 30\text{kN}$)	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 $\leq 1000\text{ m}$	0,50	0,20	0,00
Neve a quota $> 1000\text{ m}$	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 A_1 e combinazione 2 con coefficienti A_2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A_1).

NTC 2018 Tabella 2.6.I

Coefficiente	γ_f	γ_{f1}	γ_{f2}	γ_{f3}

<i>Carichi permanenti</i>	<i>Favorevoli</i>	$\gamma G1$	0,9	1,0	1,0
	<i>Sfavorevoli</i>		1,1	1,3	1,0
<i>Carichi permanenti non strutturali</i>	<i>Favorevoli</i>	$\gamma G2$	0,8	0,8	0,8
(Non compiutamente definiti)	<i>Sfavorevoli</i>		1,5	1,5	1,3
<i>Carichi variabili</i>	<i>Favorevoli</i>	γQi	0,0	0,0	0,0
	<i>Sfavorevoli</i>		1,5	1,5	1,3

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	SLU1	
2	SLU	SLU2	
3	SLU	SLU3	
4	SLU	SLU4	
5	SLU	SLU5	
6	SLU	SLU6	
7	SLU	SLU7	
8	SLU	SLU8	
9	SLU	SLU9	
10	SLU	SLU10	
11	SLU	SLU11	
12	SLU	SLU12	
13	SLU	SLU13	
14	SLU	SLU14	
15	SLU	SLU15	
16	SLU	SLU16	
17	SLU	SLU17	
18	SLU	SLU18	
19	SLU	SLU19	
20	SLU	SLU20	
21	SLU	SLU21	
22	SLU	SLU22	
23	SLU	SLU23	
24	SLU	SLU24	
25	SLU	SLU25	
26	SLU	SLU26	
27	SLU	SLU27	
28	SLU	SLU28	
29	SLU	SLU29	
30	SLU	SLU30	
31	SLU	SLU31	
32	SLU	SLU32	
33	SLU	SLU33	
34	SLU	SLU34	
35	SLU	SLU35	
36	SLU	SLU36	
37	SLU	SLUorizzontale1	
38	SLU	SLUorizzontale2	
39	SLU	SLUorizzontale3	
40	SLU	SLUorizzontale4	
41	SLU	SLUorizzontale5	
42	SLU	SLUorizzontale6	
43	SLU	SLUorizzontale7	
44	SLU	SLUorizzontale8	
45	SLU	StaticaSLV1ex+ey+	
46	SLU	StaticaSLV1ex+ey-	
47	SLU	StaticaSLV1ex-ey+	
48	SLU	StaticaSLV1ex-ey-	
49	SLU	StaticaSLV2ex+ey+	
50	SLU	StaticaSLV2ex+ey-	
51	SLU	StaticaSLV2ex-ey+	
52	SLU	StaticaSLV2ex-ey-	
53	SLU	StaticaSLV3ex+ey+	
54	SLU	StaticaSLV3ex+ey-	
55	SLU	StaticaSLV3ex-ey+	
56	SLU	StaticaSLV3ex-ey-	
57	SLU	StaticaSLV4ex+ey+	
58	SLU	StaticaSLV4ex+ey-	

Cmb	Tipo	Sigla Id	effetto P-delta
59	SLU	StaticaSLV4ex-ey+	
60	SLU	StaticaSLV4ex-ey-	
61	SLU	StaticaSLV5ex+ey+	
62	SLU	StaticaSLV5ex+ey-	
63	SLU	StaticaSLV5ex-ey+	
64	SLU	StaticaSLV5ex-ey-	
65	SLU	StaticaSLV6ex+ey+	
66	SLU	StaticaSLV6ex+ey-	
67	SLU	StaticaSLV6ex-ey+	
68	SLU	StaticaSLV6ex-ey-	
69	SLU	StaticaSLV7ex+ey+	
70	SLU	StaticaSLV7ex+ey-	
71	SLU	StaticaSLV7ex-ey+	
72	SLU	StaticaSLV7ex-ey-	
73	SLU	StaticaSLV8ex+ey+	
74	SLU	StaticaSLV8ex+ey-	
75	SLU	StaticaSLV8ex-ey+	
76	SLU	StaticaSLV8ex-ey-	
77	SLU	StaticaSLD1ex+ey+	
78	SLU	StaticaSLD1ex+ey-	
79	SLU	StaticaSLD1ex-ey+	
80	SLU	StaticaSLD1ex-ey-	
81	SLU	StaticaSLD2ex+ey+	
82	SLU	StaticaSLD2ex+ey-	
83	SLU	StaticaSLD2ex-ey+	
84	SLU	StaticaSLD2ex-ey-	
85	SLU	StaticaSLD3ex+ey+	
86	SLU	StaticaSLD3ex+ey-	
87	SLU	StaticaSLD3ex-ey+	
88	SLU	StaticaSLD3ex-ey-	
89	SLU	StaticaSLD4ex+ey+	
90	SLU	StaticaSLD4ex+ey-	
91	SLU	StaticaSLD4ex-ey+	
92	SLU	StaticaSLD4ex-ey-	
93	SLU	StaticaSLD5ex+ey+	
94	SLU	StaticaSLD5ex+ey-	
95	SLU	StaticaSLD5ex-ey+	
96	SLU	StaticaSLD5ex-ey-	
97	SLU	StaticaSLD6ex+ey+	
98	SLU	StaticaSLD6ex+ey-	
99	SLU	StaticaSLD6ex-ey+	
100	SLU	StaticaSLD6ex-ey-	
101	SLU	StaticaSLD7ex+ey+	
102	SLU	StaticaSLD7ex+ey-	
103	SLU	StaticaSLD7ex-ey+	
104	SLU	StaticaSLD7ex-ey-	
105	SLU	StaticaSLD8ex+ey+	
106	SLU	StaticaSLD8ex+ey-	
107	SLU	StaticaSLD8ex-ey+	
108	SLU	StaticaSLD8ex-ey-	
109	SLU	DinamicaSLV1ex+ey+	
110	SLU	DinamicaSLV1ex+ey-	
111	SLU	DinamicaSLV1ex-ey+	
112	SLU	DinamicaSLV1ex-ey-	
113	SLU	DinamicaSLV2ex+ey+	
114	SLU	DinamicaSLV2ex+ey-	
115	SLU	DinamicaSLV2ex-ey+	
116	SLU	DinamicaSLV2ex-ey-	
117	SLU	DinamicaSLV3ex+ey+	
118	SLU	DinamicaSLV3ex+ey-	
119	SLU	DinamicaSLV3ex-ey+	
120	SLU	DinamicaSLV3ex-ey-	
121	SLU	DinamicaSLV4ex+ey+	
122	SLU	DinamicaSLV4ex+ey-	
123	SLU	DinamicaSLV4ex-ey+	
124	SLU	DinamicaSLV4ex-ey-	
125	SLU	DinamicaSLV5ex+ey+	
126	SLU	DinamicaSLV5ex+ey-	
127	SLU	DinamicaSLV5ex-ey+	
128	SLU	DinamicaSLV5ex-ey-	
129	SLU	DinamicaSLV6ex+ey+	
130	SLU	DinamicaSLV6ex+ey-	
131	SLU	DinamicaSLV6ex-ey+	
132	SLU	DinamicaSLV6ex-ey-	

Cmb	Tipo	Sigla Id	effetto P-delta
133	SLU	DinamicaSLV7ex+ey+	
134	SLU	DinamicaSLV7ex+ey-	
135	SLU	DinamicaSLV7ex-ey+	
136	SLU	DinamicaSLV7ex-ey-	
137	SLU	DinamicaSLV8ex+ey+	
138	SLU	DinamicaSLV8ex+ey-	
139	SLU	DinamicaSLV8ex-ey+	
140	SLU	DinamicaSLV8ex-ey-	
141	SLU	DinamicaSLD1ex+ey+	
142	SLU	DinamicaSLD1ex+ey-	
143	SLU	DinamicaSLD1ex-ey+	
144	SLU	DinamicaSLD1ex-ey-	
145	SLU	DinamicaSLD2ex+ey+	
146	SLU	DinamicaSLD2ex+ey-	
147	SLU	DinamicaSLD2ex-ey+	
148	SLU	DinamicaSLD2ex-ey-	
149	SLU	DinamicaSLD3ex+ey+	
150	SLU	DinamicaSLD3ex+ey-	
151	SLU	DinamicaSLD3ex-ey+	
152	SLU	DinamicaSLD3ex-ey-	
153	SLU	DinamicaSLD4ex+ey+	
154	SLU	DinamicaSLD4ex+ey-	
155	SLU	DinamicaSLD4ex-ey+	
156	SLU	DinamicaSLD4ex-ey-	
157	SLU	DinamicaSLD5ex+ey+	
158	SLU	DinamicaSLD5ex+ey-	
159	SLU	DinamicaSLD5ex-ey+	
160	SLU	DinamicaSLD5ex-ey-	
161	SLU	DinamicaSLD6ex+ey+	
162	SLU	DinamicaSLD6ex+ey-	
163	SLU	DinamicaSLD6ex-ey+	
164	SLU	DinamicaSLD6ex-ey-	
165	SLU	DinamicaSLD7ex+ey+	
166	SLU	DinamicaSLD7ex+ey-	
167	SLU	DinamicaSLD7ex-ey+	
168	SLU	DinamicaSLD7ex-ey-	
169	SLU	DinamicaSLD8ex+ey+	
170	SLU	DinamicaSLD8ex+ey-	
171	SLU	DinamicaSLD8ex-ey+	
172	SLU	DinamicaSLD8ex-ey-	
173	SLU	SLErara1	
174	SLU	SLErara2	
175	SLU	SLErara3	
176	SLU	SLErara4	
177	SLU	SLErara5	
178	SLU	SLErara6	
179	SLU	SLErara7	
180	SLU	SLErara8	
181	SLU	SLErara9	

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	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
2	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
3	0.80	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0					
4	0.80	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0					
5	0.80	1.50	0.75	0.90	0.0	0.0	0.0	0.0	0.0					
6	0.80	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0					
7	0.80	0.0	1.50	0.90	0.0	0.0	0.0	0.0	0.0					
8	0.80	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0					
9	0.80	0.0	0.75	1.50	0.0	0.0	0.0	0.0	0.0					
10	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
11	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
12	1.50	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0					
13	1.50	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0					
14	1.50	1.50	0.75	0.90	0.0	0.0	0.0	0.0	0.0					
15	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0					
16	1.50	0.0	1.50	0.90	0.0	0.0	0.0	0.0	0.0					
17	1.50	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0					
18	1.50	0.0	0.75	1.50	0.0	0.0	0.0	0.0	0.0					

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...
19	0.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
20	0.80	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
21	0.80	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0					
22	0.80	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0					
23	0.80	1.50	0.75	0.90	0.0	0.0	0.0	0.0	0.0					
24	0.80	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0					
25	0.80	0.0	1.50	0.90	0.0	0.0	0.0	0.0	0.0					
26	0.80	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0					
27	0.80	0.0	0.75	1.50	0.0	0.0	0.0	0.0	0.0					
28	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
29	1.50	1.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
30	1.50	1.50	0.75	0.0	0.0	0.0	0.0	0.0	0.0					
31	1.50	1.50	0.0	0.90	0.0	0.0	0.0	0.0	0.0					
32	1.50	1.50	0.75	0.90	0.0	0.0	0.0	0.0	0.0					
33	1.50	0.0	1.50	0.0	0.0	0.0	0.0	0.0	0.0					
34	1.50	0.0	1.50	0.90	0.0	0.0	0.0	0.0	0.0					
35	1.50	0.0	0.0	1.50	0.0	0.0	0.0	0.0	0.0					
36	1.50	0.0	0.75	1.50	0.0	0.0	0.0	0.0	0.0					
37	0.80	0.0	0.0	0.0	1.50	0.0	0.0	0.0	0.0					
38	0.80	0.0	0.0	0.0	0.0	1.50	0.0	0.0	0.0					
39	0.80	0.0	0.0	0.0	-1.50	0.0	0.0	0.0	0.0					
40	0.80	0.0	0.0	0.0	0.0	-1.50	0.0	0.0	0.0					
41	1.50	0.0	0.75	0.0	1.50	0.0	0.0	0.0	0.0					
42	1.50	0.0	0.75	0.0	0.0	1.50	0.0	0.0	0.0					
43	1.50	0.0	0.75	0.0	-1.50	0.0	0.0	0.0	0.0					
44	1.50	0.0	0.75	0.0	0.0	-1.50	0.0	0.0	0.0					
45	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0					
46	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0					
47	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0					
48	1.00	0.0	0.0	0.0	0.0	0.0	1.00	0.30	0.0					
49	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0					
50	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0					
51	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0					
52	1.00	0.0	0.0	0.0	0.0	0.0	1.00	-0.30	0.0					
53	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0					
54	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0					
55	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0					
56	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	0.30	0.0					
57	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0					
58	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0					
59	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0					
60	1.00	0.0	0.0	0.0	0.0	0.0	-1.00	-0.30	0.0					
61	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0					
62	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0					
63	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0					
64	1.00	0.0	0.0	0.0	0.0	0.0	0.30	1.00	0.0					
65	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0					
66	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0					
67	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0					
68	1.00	0.0	0.0	0.0	0.0	0.0	0.30	-1.00	0.0					
69	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0					
70	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0					
71	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0					
72	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	1.00	0.0					
73	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0					
74	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0					
75	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0					
76	1.00	0.0	0.0	0.0	0.0	0.0	-0.30	-1.00	0.0					
77	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00					
78	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00					
79	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00					
80	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00					
81	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00					
82	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00					
83	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00					
84	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00					
85	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00					
86	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00					
87	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00					
88	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00					
89	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00					
90	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00					
91	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00					

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...
92	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.00					
93	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30					
94	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30					
95	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30					
96	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30					
97	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30					
98	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30					
99	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30					
100	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30					
101	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30					
102	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30					
103	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30					
104	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30					
105	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30					
106	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30					
107	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30					
108	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.30					
109	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
110	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
111	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
112	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
113	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
114	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
115	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
116	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
117	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
118	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
119	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
120	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
121	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
122	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
123	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
124	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
125	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
126	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
127	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
128	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
129	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
130	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
131	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
132	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
133	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
134	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
135	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
136	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
137	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
138	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
139	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
140	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
141	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
142	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
143	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
144	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
145	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
146	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
147	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
148	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
149	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
150	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
151	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
152	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
153	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
154	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
155	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
156	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
157	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
158	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
159	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
160	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
161	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
162	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
163	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
164	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					

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...
165	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
166	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
167	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
168	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
169	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
170	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
171	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
172	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
173	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
174	1.00	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
175	1.00	1.00	0.50	0.0	0.0	0.0	0.0	0.0	0.0					
176	1.00	1.00	0.0	0.60	0.0	0.0	0.0	0.0	0.0					
177	1.00	1.00	0.50	0.60	0.0	0.0	0.0	0.0	0.0					
178	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0					
179	1.00	0.0	1.00	0.60	0.0	0.0	0.0	0.0	0.0					
180	1.00	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0					
181	1.00	0.0	0.50	1.00	0.0	0.0	0.0	0.0	0.0					

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	C	T1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Id nodo	Longitudine	Latitudine	Distanza
			Km
Loc.	11.083	44.505	
16948	11.039	44.460	6.081
16949	11.109	44.461	5.292
16727	11.107	44.511	2.010
16726	11.037	44.510	3.678

SL	Pver	Tr	ag	Fo	T*c
		Anni	g		sec
SLO	81.0	45.2	0.063	2.498	0.268
SLD	63.0	75.4	0.077	2.487	0.275
SLV	10.0	711.8	0.186	2.390	0.308
SLC	5.0	1462.2	0.231	2.433	0.320

SL	ag	S	Fo	Fv	Tb	Tc	Td
	g				sec	sec	sec
SLO	0.063	1.500	2.498	0.844	0.145	0.435	1.850
SLD	0.077	1.500	2.487	0.934	0.147	0.442	1.910
SLV	0.186	1.434	2.390	1.391	0.159	0.477	2.343
SLC	0.231	1.363	2.433	1.577	0.163	0.489	2.522

RISULTATI ANALISI SISMICHE

LEGENDA TABELLA ANALISI SISMICHE

Il programma consente l'analisi di diverse configurazioni sismiche.

Sono previsti, infatti, i seguenti casi di carico:

9. Esk caso di carico sismico con analisi statica equivalente

10. Edk caso di carico sismico con analisi dinamica

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

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

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

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

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

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

a) analisi sismica statica equivalente:

- quota, posizione del centro di applicazione e azione orizzontale risultante, posizione del baricentro delle rigidezze, rapporto r/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 ϵ_T (dr) degli elementi strutturali verticali. Per semplicità di consultazione il livello è espresso anche in unità $1000 \cdot \epsilon_T/h$ da confrontare direttamente con i valori forniti nella norma (es. 5 per edifici con tamponamenti collegati rigidamente alla struttura, 10.0 per edifici con tamponamenti collegati elasticamente, 3 per edifici in muratura ordinaria, 4 per edifici in muratura armata).

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

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

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

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

Nodo	Nodo di appoggio dell' isolatore
Cmb	Combinazione oggetto della verifica
Verif.	Codice di verifica ok – verifica positiva, NV – verifica negativa, ND – verifica non completata
d_E	Spostamento relativo tra le due facce (amplificato del 20% per Ordinanza 3274 e smi) combinato con la regola del 30%
Ang fi	Angolo utilizzato per il calcolo dell' area ridotta A_r (per dispositivi circolari)
V	Azione verticale agente
A_r	Area ridotta efficace
Dim A_2	Dimensione utile per il calcolo della deformazione per rotazione
Sig s	Tensione nell' inserto in acciaio
Gam c(a,s,t)	Deformazioni di taglio dell' elastomero
Vcr	Carico critico per instabilità

Affinché la verifica sia positiva deve essere:

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

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

La costruzione, nuova, è caratterizzata da regolarità sia in pianta sia in altezza ed è progettata considerando un comportamento non dissipativo (ND).

Parametri fattore in direzione x e y

Sistema costruttivo:	calcestruzzo	
Tipologia strutturale:	altre tipologie	
Valore base fattore	$q_0 =$	1.500
Fattore di regolarità	$K_R =$	1.0
Fattore dissipativo	$q_D = q_0 \cdot K_R =$	1.500
Fattore non dissipativo	$q_{ND} = 2/3 \cdot q_D =$	1.000 (≤ 1.5)

Fattori di comportamento utilizzati

	Dissipativi	Non dissipativi
q SLU x	1.500	1.000
q SLU y	1.500	1.000
q SLU z	1.500	1.500

CDC	Tipo	Sigla Id	Note
2	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.434
			ordinata spettro (tratto Tb-Tc) = 0.637 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.300 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. μ_d : 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro $S_d(T1)$: 0.637

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			
Risulta	0.0		0.0									

CDC	Tipo	Sigla Id	Note
3	Esk	CDC=Es (statico SLU) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.434
			ordinata spettro (tratto Tb-Tc) = 0.637 g
			angolo di ingresso: 0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.300 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. μ_d : 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro $S_d(T1)$: 0.637

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			
Risulta	0.0		0.0									

CDC	Tipo	Sigla Id	Note
4	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. +)	

CDC	Tipo	Sigla Id	Note
			categoria suolo: C
			fattore di sito S = 1.434
			ordinata spettro (tratto Tb-Tc) = 0.637 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.300 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. mu d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.637

[illegible]

CDC	Tipo	Sigla Id	Note
5	Esk	CDC=Es (statico SLU) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.434
			ordinata spettro (tratto Tb-Tc) = 0.637 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.300 sec.
			fattore q: 1.000
			amplificazione ND (non dissipativi): 1.000
			fattore per spost. μ d: 1.000
			classe di duttilità CD: ND
			coefficiente Lambda: 1.000
			ordinata spettro Sd(T1): 0.637

[illegible]

CDC	Tipo	Sigla Id	Note
6	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.289 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.300 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.289

[illegible]

CDC	Tipo	Sigla Id	Note
7	Esk	CDC=Es (statico SLD) alfa=0.0 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.289 g
			angolo di ingresso:0.0
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.300 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.289

[illegible]

CDC	Tipo	Sigla Id	Note
8	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. +)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.289 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: positiva
			periodo proprio T1: 0.300 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.289

[illegible]

CDC	Tipo	Sigla Id	Note
9	Esk	CDC=Es (statico SLD) alfa=90.00 (ecc. -)	
			categoria suolo: C
			fattore di sito S = 1.500
			ordinata spettro (tratto Tb-Tc) = 0.289 g
			angolo di ingresso:90.00
			eccentricità aggiuntiva: negativa
			periodo proprio T1: 0.300 sec.
			coefficiente Lambda: 1.000
			ordinata spettro Se(T1): 0.289

[illegible]

RISULTATI NODALI

LEGENDA RISULTATI NODALI

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

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

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

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

Nodo	Cmb	Traslazione X cm	Traslazione Y cm	Traslazione Z cm	Rotazione X	Rotazione Y	Rotazione Z
1	1	0.0	0.0	-0.05	0.0	0.0	0.0
1	2	0.0	0.0	-0.05	0.0	0.0	0.0
1	10	0.0	0.0	-0.09	0.0	0.0	0.0
1	11	0.0	0.0	-0.09	0.0	0.0	0.0
1	38	0.0	0.0	-0.05	0.0	0.0	0.0
1	45	0.0	0.0	-0.06	0.0	0.0	0.0
2	1	0.0	0.0	-0.05	0.0	0.0	0.0
2	2	0.0	0.0	-0.05	0.0	0.0	0.0
2	10	0.0	0.0	-0.09	0.0	0.0	0.0
2	11	0.0	0.0	-0.09	0.0	0.0	0.0
2	38	0.0	0.0	-0.05	0.0	0.0	0.0
2	45	0.0	0.0	-0.06	0.0	0.0	0.0
3	1	0.0	0.0	-0.05	0.0	0.0	0.0
3	2	0.0	0.0	-0.05	0.0	0.0	0.0
3	10	0.0	0.0	-0.09	0.0	0.0	0.0
3	11	0.0	0.0	-0.09	0.0	0.0	0.0
3	38	0.0	0.0	-0.05	0.0	0.0	0.0
3	45	0.0	0.0	-0.06	0.0	0.0	0.0
4	1	0.0	0.0	-0.05	0.0	0.0	0.0
4	2	0.0	0.0	-0.05	0.0	0.0	0.0
4	10	0.0	0.0	-0.09	0.0	0.0	0.0
4	11	0.0	0.0	-0.09	0.0	0.0	0.0
4	38	0.0	0.0	-0.05	0.0	0.0	0.0
4	45	0.0	0.0	-0.06	0.0	0.0	0.0
5	1	0.0	0.0	-0.05	0.0	0.0	0.0
5	2	0.0	0.0	-0.05	0.0	0.0	0.0
5	10	0.0	0.0	-0.09	0.0	0.0	0.0
5	11	0.0	0.0	-0.09	0.0	0.0	0.0
5	38	0.0	0.0	-0.05	0.0	0.0	0.0
5	45	0.0	0.0	-0.06	0.0	0.0	0.0
6	1	0.0	0.0	-0.05	0.0	0.0	0.0
6	2	0.0	0.0	-0.05	0.0	0.0	0.0
6	10	0.0	0.0	-0.09	0.0	0.0	0.0
6	11	0.0	0.0	-0.09	0.0	0.0	0.0
6	38	0.0	0.0	-0.05	0.0	0.0	0.0
6	45	0.0	0.0	-0.06	0.0	0.0	0.0
7	1	0.0	0.0	-0.05	0.0	0.0	0.0
7	2	0.0	0.0	-0.05	0.0	0.0	0.0
7	10	0.0	0.0	-0.09	0.0	0.0	0.0
7	11	0.0	0.0	-0.09	0.0	0.0	0.0
7	38	0.0	0.0	-0.05	0.0	0.0	0.0
7	45	0.0	0.0	-0.06	0.0	0.0	0.0
8	1	0.0	0.0	-0.05	0.0	0.0	0.0
8	2	0.0	0.0	-0.05	0.0	0.0	0.0
8	10	0.0	0.0	-0.09	0.0	0.0	0.0
8	11	0.0	0.0	-0.09	0.0	0.0	0.0
8	38	0.0	0.0	-0.05	0.0	0.0	0.0
8	45	0.0	0.0	-0.06	0.0	0.0	0.0

9	1	0.0	0.0	-0.05	0.0	0.0	0.0
9	2	0.0	0.0	-0.05	0.0	0.0	0.0
9	10	0.0	0.0	-0.09	0.0	0.0	0.0
9	11	0.0	0.0	-0.09	0.0	0.0	0.0
9	38	0.0	0.0	-0.05	0.0	0.0	0.0
9	45	0.0	0.0	-0.06	0.0	0.0	0.0
10	1	0.0	0.0	-0.05	0.0	0.0	0.0
10	2	0.0	0.0	-0.05	0.0	0.0	0.0
10	10	0.0	0.0	-0.09	0.0	0.0	0.0
10	11	0.0	0.0	-0.09	0.0	0.0	0.0
10	38	0.0	0.0	-0.05	0.0	0.0	0.0
10	45	0.0	0.0	-0.06	0.0	0.0	0.0
11	1	0.0	0.0	-0.05	0.0	0.0	0.0
11	2	0.0	0.0	-0.05	0.0	0.0	0.0
11	10	0.0	0.0	-0.09	0.0	0.0	0.0
11	11	0.0	0.0	-0.09	0.0	0.0	0.0
11	38	0.0	0.0	-0.05	0.0	0.0	0.0
11	45	0.0	0.0	-0.06	0.0	0.0	0.0
12	1	0.0	0.0	-0.05	0.0	0.0	0.0
12	2	0.0	0.0	-0.05	0.0	0.0	0.0
12	10	0.0	0.0	-0.09	0.0	0.0	0.0
12	11	0.0	0.0	-0.09	0.0	0.0	0.0
12	38	0.0	0.0	-0.05	0.0	0.0	0.0
12	45	0.0	0.0	-0.06	0.0	0.0	0.0
13	1	0.0	0.0	-0.05	0.0	0.0	0.0
13	2	0.0	0.0	-0.05	0.0	0.0	0.0
13	10	0.0	0.0	-0.09	0.0	0.0	0.0
13	11	0.0	0.0	-0.09	0.0	0.0	0.0
13	38	0.0	0.0	-0.05	0.0	0.0	0.0
13	45	0.0	0.0	-0.06	0.0	0.0	0.0
14	1	0.0	0.0	-0.05	0.0	0.0	0.0
14	2	0.0	0.0	-0.05	0.0	0.0	0.0
14	10	0.0	0.0	-0.09	0.0	0.0	0.0
14	11	0.0	0.0	-0.09	0.0	0.0	0.0
14	38	0.0	0.0	-0.05	0.0	0.0	0.0
14	45	0.0	0.0	-0.06	0.0	0.0	0.0
15	1	0.0	0.0	-0.05	0.0	0.0	0.0
15	2	0.0	0.0	-0.05	0.0	0.0	0.0
15	10	0.0	0.0	-0.09	0.0	0.0	0.0
15	11	0.0	0.0	-0.09	0.0	0.0	0.0
15	38	0.0	0.0	-0.05	0.0	0.0	0.0
15	45	0.0	0.0	-0.06	0.0	0.0	0.0
16	1	0.0	0.0	-0.05	0.0	0.0	0.0
16	2	0.0	0.0	-0.05	0.0	0.0	0.0
16	10	0.0	0.0	-0.09	0.0	0.0	0.0
16	11	0.0	0.0	-0.09	0.0	0.0	0.0
16	38	0.0	0.0	-0.05	0.0	0.0	0.0
16	45	0.0	0.0	-0.06	0.0	0.0	0.0
17	1	0.0	0.0	-0.05	0.0	0.0	0.0
17	2	0.0	0.0	-0.05	0.0	0.0	0.0
17	10	0.0	0.0	-0.09	0.0	0.0	0.0
17	11	0.0	0.0	-0.09	0.0	0.0	0.0
17	38	0.0	0.0	-0.05	0.0	0.0	0.0
17	45	0.0	0.0	-0.06	0.0	0.0	0.0
18	1	0.0	0.0	-0.05	0.0	0.0	0.0
18	2	0.0	0.0	-0.05	0.0	0.0	0.0
18	10	0.0	0.0	-0.09	0.0	0.0	0.0
18	11	0.0	0.0	-0.09	0.0	0.0	0.0
18	38	0.0	0.0	-0.05	0.0	0.0	0.0
18	45	0.0	0.0	-0.06	0.0	0.0	0.0
19	1	0.0	0.0	-0.05	0.0	0.0	0.0
19	2	0.0	0.0	-0.05	0.0	0.0	0.0
19	10	0.0	0.0	-0.09	0.0	0.0	0.0
19	11	0.0	0.0	-0.09	0.0	0.0	0.0
19	38	0.0	0.0	-0.05	0.0	0.0	0.0
19	45	0.0	0.0	-0.06	0.0	0.0	0.0
20	1	0.0	0.0	-0.05	0.0	0.0	0.0
20	2	0.0	0.0	-0.05	0.0	0.0	0.0
20	10	0.0	0.0	-0.09	0.0	0.0	0.0
20	11	0.0	0.0	-0.09	0.0	0.0	0.0
20	38	0.0	0.0	-0.05	0.0	0.0	0.0
20	45	0.0	0.0	-0.06	0.0	0.0	0.0
21	1	0.0	0.0	-0.05	0.0	0.0	0.0
21	2	0.0	0.0	-0.05	0.0	0.0	0.0
21	10	0.0	0.0	-0.09	0.0	0.0	0.0
21	11	0.0	0.0	-0.09	0.0	0.0	0.0
21	38	0.0	0.0	-0.05	0.0	0.0	0.0

21	45	0.0	0.0	-0.06	0.0	0.0	0.0
22	1	0.0	0.0	-0.05	0.0	0.0	0.0
22	2	0.0	0.0	-0.05	0.0	0.0	0.0
22	10	0.0	0.0	-0.09	0.0	0.0	0.0
22	11	0.0	0.0	-0.09	0.0	0.0	0.0
22	38	0.0	0.0	-0.05	0.0	0.0	0.0
22	45	0.0	0.0	-0.06	0.0	0.0	0.0
23	1	0.0	0.0	-0.05	0.0	0.0	0.0
23	2	0.0	0.0	-0.05	0.0	0.0	0.0
23	10	0.0	0.0	-0.09	0.0	0.0	0.0
23	11	0.0	0.0	-0.09	0.0	0.0	0.0
23	38	0.0	0.0	-0.05	0.0	0.0	0.0
23	45	0.0	0.0	-0.06	0.0	0.0	0.0
24	1	0.0	0.0	-0.05	0.0	0.0	0.0
24	2	0.0	0.0	-0.05	0.0	0.0	0.0
24	10	0.0	0.0	-0.09	0.0	0.0	0.0
24	11	0.0	0.0	-0.09	0.0	0.0	0.0
24	38	0.0	0.0	-0.05	0.0	0.0	0.0
24	45	0.0	0.0	-0.06	0.0	0.0	0.0
25	1	0.0	0.0	-0.05	0.0	0.0	0.0
25	2	0.0	0.0	-0.05	0.0	0.0	0.0
25	10	0.0	0.0	-0.09	0.0	0.0	0.0
25	11	0.0	0.0	-0.09	0.0	0.0	0.0
25	38	0.0	0.0	-0.05	0.0	0.0	0.0
25	45	0.0	0.0	-0.06	0.0	0.0	0.0
26	1	0.0	0.0	-0.05	0.0	0.0	0.0
26	2	0.0	0.0	-0.05	0.0	0.0	0.0
26	10	0.0	0.0	-0.09	0.0	0.0	0.0
26	11	0.0	0.0	-0.09	0.0	0.0	0.0
26	38	0.0	0.0	-0.05	0.0	0.0	0.0
26	45	0.0	0.0	-0.06	0.0	0.0	0.0
27	1	0.0	0.0	-0.05	0.0	0.0	0.0
27	2	0.0	0.0	-0.05	0.0	0.0	0.0
27	10	0.0	0.0	-0.09	0.0	0.0	0.0
27	11	0.0	0.0	-0.09	0.0	0.0	0.0
27	38	0.0	0.0	-0.05	0.0	0.0	0.0
27	45	0.0	0.0	-0.06	0.0	0.0	0.0
28	1	0.0	0.0	-0.05	0.0	0.0	0.0
28	2	0.0	0.0	-0.05	0.0	0.0	0.0
28	10	0.0	0.0	-0.09	0.0	0.0	0.0
28	11	0.0	0.0	-0.09	0.0	0.0	0.0
28	38	0.0	0.0	-0.05	0.0	0.0	0.0
28	45	0.0	0.0	-0.06	0.0	0.0	0.0
29	1	0.0	0.0	-0.05	0.0	0.0	0.0
29	2	0.0	0.0	-0.05	0.0	0.0	0.0
29	10	0.0	0.0	-0.09	0.0	0.0	0.0
29	11	0.0	0.0	-0.09	0.0	0.0	0.0
29	38	0.0	0.0	-0.05	0.0	0.0	0.0
29	45	0.0	0.0	-0.06	0.0	0.0	0.0
30	1	0.0	0.0	-0.05	0.0	0.0	0.0
30	2	0.0	0.0	-0.05	0.0	0.0	0.0
30	10	0.0	0.0	-0.09	0.0	0.0	0.0
30	11	0.0	0.0	-0.09	0.0	0.0	0.0
30	38	0.0	0.0	-0.05	0.0	0.0	0.0
30	45	0.0	0.0	-0.06	0.0	0.0	0.0
31	1	0.0	0.0	-0.05	0.0	0.0	0.0
31	2	0.0	0.0	-0.05	0.0	0.0	0.0
31	10	0.0	0.0	-0.09	0.0	0.0	0.0
31	11	0.0	0.0	-0.09	0.0	0.0	0.0
31	38	0.0	0.0	-0.05	0.0	0.0	0.0
31	45	0.0	0.0	-0.06	0.0	0.0	0.0
32	1	0.0	0.0	-0.05	0.0	0.0	0.0
32	2	0.0	0.0	-0.05	0.0	0.0	0.0
32	10	0.0	0.0	-0.09	0.0	0.0	0.0
32	11	0.0	0.0	-0.09	0.0	0.0	0.0
32	38	0.0	0.0	-0.05	0.0	0.0	0.0
32	45	0.0	0.0	-0.06	0.0	0.0	0.0
33	1	0.0	0.0	-0.05	0.0	0.0	0.0
33	2	0.0	0.0	-0.05	0.0	0.0	0.0
33	10	0.0	0.0	-0.09	0.0	0.0	0.0
33	11	0.0	0.0	-0.09	0.0	0.0	0.0
33	38	0.0	0.0	-0.05	0.0	0.0	0.0
33	45	0.0	0.0	-0.06	0.0	0.0	0.0
34	1	0.0	0.0	-0.05	0.0	0.0	0.0
34	2	0.0	0.0	-0.05	0.0	0.0	0.0
34	10	0.0	0.0	-0.09	0.0	0.0	0.0
34	11	0.0	0.0	-0.09	0.0	0.0	0.0

34	38	0.0	0.0	-0.05	0.0	0.0	0.0
34	45	0.0	0.0	-0.06	0.0	0.0	0.0
35	1	0.0	0.0	-0.05	0.0	0.0	0.0
35	2	0.0	0.0	-0.05	0.0	0.0	0.0
35	10	0.0	0.0	-0.09	0.0	0.0	0.0
35	11	0.0	0.0	-0.09	0.0	0.0	0.0
35	38	0.0	0.0	-0.05	0.0	0.0	0.0
35	45	0.0	0.0	-0.06	0.0	0.0	0.0
36	1	0.0	0.0	-0.05	0.0	0.0	0.0
36	2	0.0	0.0	-0.05	0.0	0.0	0.0
36	10	0.0	0.0	-0.09	0.0	0.0	0.0
36	11	0.0	0.0	-0.09	0.0	0.0	0.0
36	38	0.0	0.0	-0.05	0.0	0.0	0.0
36	45	0.0	0.0	-0.06	0.0	0.0	0.0
37	1	0.0	0.0	-0.05	0.0	0.0	0.0
37	2	0.0	0.0	-0.05	0.0	0.0	0.0
37	10	0.0	0.0	-0.09	0.0	0.0	0.0
37	11	0.0	0.0	-0.09	0.0	0.0	0.0
37	38	0.0	0.0	-0.05	0.0	0.0	0.0
37	45	0.0	0.0	-0.06	0.0	0.0	0.0
38	1	0.0	0.0	-0.05	0.0	0.0	0.0
38	2	0.0	0.0	-0.05	0.0	0.0	0.0
38	10	0.0	0.0	-0.09	0.0	0.0	0.0
38	11	0.0	0.0	-0.09	0.0	0.0	0.0
38	38	0.0	0.0	-0.05	0.0	0.0	0.0
38	45	0.0	0.0	-0.06	0.0	0.0	0.0
39	1	0.0	0.0	-0.05	0.0	0.0	0.0
39	2	0.0	0.0	-0.05	0.0	0.0	0.0
39	10	0.0	0.0	-0.09	0.0	0.0	0.0
39	11	0.0	0.0	-0.09	0.0	0.0	0.0
39	38	0.0	0.0	-0.05	0.0	0.0	0.0
39	45	0.0	0.0	-0.06	0.0	0.0	0.0
40	1	0.0	0.0	-0.05	0.0	0.0	0.0
40	2	0.0	0.0	-0.05	0.0	0.0	0.0
40	10	0.0	0.0	-0.09	0.0	0.0	0.0
40	11	0.0	0.0	-0.09	0.0	0.0	0.0
40	38	0.0	0.0	-0.05	0.0	0.0	0.0
40	45	0.0	0.0	-0.06	0.0	0.0	0.0
41	1	0.0	0.0	-0.05	0.0	0.0	0.0
41	2	0.0	0.0	-0.05	0.0	0.0	0.0
41	10	0.0	0.0	-0.09	0.0	0.0	0.0
41	11	0.0	0.0	-0.09	0.0	0.0	0.0
41	38	0.0	0.0	-0.05	0.0	0.0	0.0
41	45	0.0	0.0	-0.06	0.0	0.0	0.0
42	1	0.0	0.0	-0.05	0.0	0.0	0.0
42	2	0.0	0.0	-0.05	0.0	0.0	0.0
42	10	0.0	0.0	-0.09	0.0	0.0	0.0
42	11	0.0	0.0	-0.09	0.0	0.0	0.0
42	38	0.0	0.0	-0.05	0.0	0.0	0.0
42	45	0.0	0.0	-0.06	0.0	0.0	0.0
43	1	0.0	0.0	-0.05	0.0	0.0	0.0
43	2	0.0	0.0	-0.05	0.0	0.0	0.0
43	10	0.0	0.0	-0.09	0.0	0.0	0.0
43	11	0.0	0.0	-0.09	0.0	0.0	0.0
43	38	0.0	0.0	-0.05	0.0	0.0	0.0
43	45	0.0	0.0	-0.06	0.0	0.0	0.0
44	1	0.0	0.0	-0.05	0.0	0.0	0.0
44	2	0.0	0.0	-0.05	0.0	0.0	0.0
44	10	0.0	0.0	-0.09	0.0	0.0	0.0
44	11	0.0	0.0	-0.09	0.0	0.0	0.0
44	38	0.0	0.0	-0.05	0.0	0.0	0.0
44	45	0.0	0.0	-0.06	0.0	0.0	0.0
45	1	0.0	0.0	-0.05	0.0	0.0	0.0
45	2	0.0	0.0	-0.05	0.0	0.0	0.0
45	10	0.0	0.0	-0.09	0.0	0.0	0.0
45	11	0.0	0.0	-0.09	0.0	0.0	0.0
45	38	0.0	0.0	-0.05	0.0	0.0	0.0
45	45	0.0	0.0	-0.06	0.0	0.0	0.0
46	1	0.0	0.0	-0.05	0.0	0.0	0.0
46	2	0.0	0.0	-0.05	0.0	0.0	0.0
46	10	0.0	0.0	-0.09	0.0	0.0	0.0
46	11	0.0	0.0	-0.09	0.0	0.0	0.0
46	38	0.0	0.0	-0.05	0.0	0.0	0.0
46	45	0.0	0.0	-0.06	0.0	0.0	0.0
47	1	0.0	0.0	-0.05	0.0	0.0	0.0
47	2	0.0	0.0	-0.05	0.0	0.0	0.0
47	10	0.0	0.0	-0.09	0.0	0.0	0.0

47	11	0.0	0.0	-0.09	0.0	0.0	0.0
47	38	0.0	0.0	-0.05	0.0	0.0	0.0
47	45	0.0	0.0	-0.06	0.0	0.0	0.0
48	1	0.0	0.0	-0.05	0.0	0.0	0.0
48	2	0.0	0.0	-0.05	0.0	0.0	0.0
48	10	0.0	0.0	-0.09	0.0	0.0	0.0
48	11	0.0	0.0	-0.09	0.0	0.0	0.0
48	38	0.0	0.0	-0.05	0.0	0.0	0.0
48	45	0.0	0.0	-0.06	0.0	0.0	0.0
49	1	0.0	0.0	-0.05	0.0	0.0	0.0
49	2	0.0	0.0	-0.05	0.0	0.0	0.0
49	10	0.0	0.0	-0.09	0.0	0.0	0.0
49	11	0.0	0.0	-0.09	0.0	0.0	0.0
49	38	0.0	0.0	-0.05	0.0	0.0	0.0
49	45	0.0	0.0	-0.06	0.0	0.0	0.0
50	1	0.0	0.0	-0.05	0.0	0.0	0.0
50	2	0.0	0.0	-0.05	0.0	0.0	0.0
50	10	0.0	0.0	-0.09	0.0	0.0	0.0
50	11	0.0	0.0	-0.09	0.0	0.0	0.0
50	38	0.0	0.0	-0.05	0.0	0.0	0.0
50	45	0.0	0.0	-0.06	0.0	0.0	0.0
51	1	0.0	0.0	-0.05	0.0	0.0	0.0
51	2	0.0	0.0	-0.05	0.0	0.0	0.0
51	10	0.0	0.0	-0.09	0.0	0.0	0.0
51	11	0.0	0.0	-0.09	0.0	0.0	0.0
51	38	0.0	0.0	-0.05	0.0	0.0	0.0
51	45	0.0	0.0	-0.06	0.0	0.0	0.0
52	1	0.0	0.0	-0.05	0.0	0.0	0.0
52	2	0.0	0.0	-0.05	0.0	0.0	0.0
52	10	0.0	0.0	-0.09	0.0	0.0	0.0
52	11	0.0	0.0	-0.09	0.0	0.0	0.0
52	38	0.0	0.0	-0.05	0.0	0.0	0.0
52	45	0.0	0.0	-0.06	0.0	0.0	0.0
53	1	0.0	0.0	-0.05	0.0	0.0	0.0
53	2	0.0	0.0	-0.05	0.0	0.0	0.0
53	10	0.0	0.0	-0.09	0.0	0.0	0.0
53	11	0.0	0.0	-0.09	0.0	0.0	0.0
53	38	0.0	0.0	-0.05	0.0	0.0	0.0
53	45	0.0	0.0	-0.06	0.0	0.0	0.0
54	1	0.0	0.0	-0.05	0.0	0.0	0.0
54	2	0.0	0.0	-0.05	0.0	0.0	0.0
54	10	0.0	0.0	-0.09	0.0	0.0	0.0
54	11	0.0	0.0	-0.09	0.0	0.0	0.0
54	38	0.0	0.0	-0.05	0.0	0.0	0.0
54	45	0.0	0.0	-0.06	0.0	0.0	0.0
55	1	0.0	0.0	-0.05	0.0	0.0	0.0
55	2	0.0	0.0	-0.05	0.0	0.0	0.0
55	10	0.0	0.0	-0.09	0.0	0.0	0.0
55	11	0.0	0.0	-0.09	0.0	0.0	0.0
55	38	0.0	0.0	-0.05	0.0	0.0	0.0
55	45	0.0	0.0	-0.06	0.0	0.0	0.0
56	1	0.0	0.0	-0.05	0.0	0.0	0.0
56	2	0.0	0.0	-0.05	0.0	0.0	0.0
56	10	0.0	0.0	-0.09	0.0	0.0	0.0
56	11	0.0	0.0	-0.09	0.0	0.0	0.0
56	38	0.0	0.0	-0.05	0.0	0.0	0.0
56	45	0.0	0.0	-0.06	0.0	0.0	0.0
57	1	0.0	0.0	-0.05	0.0	0.0	0.0
57	2	0.0	0.0	-0.05	0.0	0.0	0.0
57	10	0.0	0.0	-0.09	0.0	0.0	0.0
57	11	0.0	0.0	-0.09	0.0	0.0	0.0
57	38	0.0	0.0	-0.05	0.0	0.0	0.0
57	45	0.0	0.0	-0.06	0.0	0.0	0.0
58	1	0.0	0.0	-0.05	0.0	0.0	0.0
58	2	0.0	0.0	-0.05	0.0	0.0	0.0
58	10	0.0	0.0	-0.09	0.0	0.0	0.0
58	11	0.0	0.0	-0.09	0.0	0.0	0.0
58	38	0.0	0.0	-0.05	0.0	0.0	0.0
58	45	0.0	0.0	-0.06	0.0	0.0	0.0
59	1	0.0	0.0	-0.05	0.0	0.0	0.0
59	2	0.0	0.0	-0.05	0.0	0.0	0.0
59	10	0.0	0.0	-0.09	0.0	0.0	0.0
59	11	0.0	0.0	-0.09	0.0	0.0	0.0
59	38	0.0	0.0	-0.05	0.0	0.0	0.0
59	45	0.0	0.0	-0.06	0.0	0.0	0.0
60	1	0.0	0.0	-0.05	0.0	0.0	0.0
60	2	0.0	0.0	-0.05	0.0	0.0	0.0

60	10	0.0	0.0	-0.09	0.0	0.0	0.0
60	11	0.0	0.0	-0.09	0.0	0.0	0.0
60	38	0.0	0.0	-0.05	0.0	0.0	0.0
60	45	0.0	0.0	-0.06	0.0	0.0	0.0
61	1	0.0	0.0	-0.05	0.0	0.0	0.0
61	2	0.0	0.0	-0.05	0.0	0.0	0.0
61	10	0.0	0.0	-0.09	0.0	0.0	0.0
61	11	0.0	0.0	-0.09	0.0	0.0	0.0
61	38	0.0	0.0	-0.05	0.0	0.0	0.0
61	45	0.0	0.0	-0.06	0.0	0.0	0.0
62	1	0.0	0.0	-0.05	0.0	0.0	0.0
62	2	0.0	0.0	-0.05	0.0	0.0	0.0
62	10	0.0	0.0	-0.09	0.0	0.0	0.0
62	11	0.0	0.0	-0.09	0.0	0.0	0.0
62	38	0.0	0.0	-0.05	0.0	0.0	0.0
62	45	0.0	0.0	-0.06	0.0	0.0	0.0
63	1	0.0	0.0	-0.05	0.0	0.0	0.0
63	2	0.0	0.0	-0.05	0.0	0.0	0.0
63	10	0.0	0.0	-0.09	0.0	0.0	0.0
63	11	0.0	0.0	-0.09	0.0	0.0	0.0
63	38	0.0	0.0	-0.05	0.0	0.0	0.0
63	45	0.0	0.0	-0.06	0.0	0.0	0.0
64	1	0.0	0.0	-0.05	0.0	0.0	0.0
64	2	0.0	0.0	-0.05	0.0	0.0	0.0
64	10	0.0	0.0	-0.09	0.0	0.0	0.0
64	11	0.0	0.0	-0.09	0.0	0.0	0.0
64	38	0.0	0.0	-0.05	0.0	0.0	0.0
64	45	0.0	0.0	-0.06	0.0	0.0	0.0
65	1	0.0	0.0	-0.05	0.0	0.0	0.0
65	2	0.0	0.0	-0.05	0.0	0.0	0.0
65	10	0.0	0.0	-0.09	0.0	0.0	0.0
65	11	0.0	0.0	-0.09	0.0	0.0	0.0
65	38	0.0	0.0	-0.05	0.0	0.0	0.0
65	45	0.0	0.0	-0.06	0.0	0.0	0.0
66	1	0.0	0.0	-0.05	0.0	0.0	0.0
66	2	0.0	0.0	-0.05	0.0	0.0	0.0
66	10	0.0	0.0	-0.09	0.0	0.0	0.0
66	11	0.0	0.0	-0.09	0.0	0.0	0.0
66	38	0.0	0.0	-0.05	0.0	0.0	0.0
66	45	0.0	0.0	-0.06	0.0	0.0	0.0
67	1	0.0	0.0	-0.05	0.0	0.0	0.0
67	2	0.0	0.0	-0.05	0.0	0.0	0.0
67	10	0.0	0.0	-0.09	0.0	0.0	0.0
67	11	0.0	0.0	-0.09	0.0	0.0	0.0
67	38	0.0	0.0	-0.05	0.0	0.0	0.0
67	45	0.0	0.0	-0.06	0.0	0.0	0.0
68	1	0.0	0.0	-0.05	0.0	0.0	0.0
68	2	0.0	0.0	-0.05	0.0	0.0	0.0
68	10	0.0	0.0	-0.09	0.0	0.0	0.0
68	11	0.0	0.0	-0.09	0.0	0.0	0.0
68	38	0.0	0.0	-0.05	0.0	0.0	0.0
68	45	0.0	0.0	-0.06	0.0	0.0	0.0
69	1	0.0	0.0	-0.05	0.0	0.0	0.0
69	2	0.0	0.0	-0.05	0.0	0.0	0.0
69	10	0.0	0.0	-0.09	0.0	0.0	0.0
69	11	0.0	0.0	-0.09	0.0	0.0	0.0
69	38	0.0	0.0	-0.05	0.0	0.0	0.0
69	45	0.0	0.0	-0.06	0.0	0.0	0.0
70	1	0.0	0.0	-0.05	0.0	0.0	0.0
70	2	0.0	0.0	-0.05	0.0	0.0	0.0
70	10	0.0	0.0	-0.09	0.0	0.0	0.0
70	11	0.0	0.0	-0.09	0.0	0.0	0.0
70	38	0.0	0.0	-0.05	0.0	0.0	0.0
70	45	0.0	0.0	-0.06	0.0	0.0	0.0
71	1	0.0	0.0	-0.05	0.0	0.0	0.0
71	2	0.0	0.0	-0.05	0.0	0.0	0.0
71	10	0.0	0.0	-0.09	0.0	0.0	0.0
71	11	0.0	0.0	-0.09	0.0	0.0	0.0
71	38	0.0	0.0	-0.05	0.0	0.0	0.0
71	45	0.0	0.0	-0.06	0.0	0.0	0.0
72	1	0.0	0.0	-0.05	0.0	0.0	0.0
72	2	0.0	0.0	-0.05	0.0	0.0	0.0
72	10	0.0	0.0	-0.09	0.0	0.0	0.0
72	11	0.0	0.0	-0.09	0.0	0.0	0.0
72	38	0.0	0.0	-0.05	0.0	0.0	0.0
72	45	0.0	0.0	-0.06	0.0	0.0	0.0
73	1	0.0	0.0	-0.05	0.0	0.0	0.0

73	2	0.0	0.0	-0.05	0.0	0.0	0.0
73	10	0.0	0.0	-0.09	0.0	0.0	0.0
73	11	0.0	0.0	-0.09	0.0	0.0	0.0
73	38	0.0	0.0	-0.05	0.0	0.0	0.0
73	45	0.0	0.0	-0.06	0.0	0.0	0.0
74	1	0.0	0.0	-0.05	0.0	0.0	0.0
74	2	0.0	0.0	-0.05	0.0	0.0	0.0
74	10	0.0	0.0	-0.09	0.0	0.0	0.0
74	11	0.0	0.0	-0.09	0.0	0.0	0.0
74	38	0.0	0.0	-0.05	0.0	0.0	0.0
74	45	0.0	0.0	-0.06	0.0	0.0	0.0
75	1	0.0	0.0	-0.05	0.0	0.0	0.0
75	2	0.0	0.0	-0.05	0.0	0.0	0.0
75	10	0.0	0.0	-0.09	0.0	0.0	0.0
75	11	0.0	0.0	-0.09	0.0	0.0	0.0
75	38	0.0	0.0	-0.05	0.0	0.0	0.0
75	45	0.0	0.0	-0.06	0.0	0.0	0.0
76	1	0.0	0.0	-0.05	0.0	0.0	0.0
76	2	0.0	0.0	-0.05	0.0	0.0	0.0
76	10	0.0	0.0	-0.09	0.0	0.0	0.0
76	11	0.0	0.0	-0.09	0.0	0.0	0.0
76	38	0.0	0.0	-0.05	0.0	0.0	0.0
76	45	0.0	0.0	-0.06	0.0	0.0	0.0
77	1	0.0	0.0	-0.05	0.0	0.0	0.0
77	2	0.0	0.0	-0.05	0.0	0.0	0.0
77	10	0.0	0.0	-0.09	0.0	0.0	0.0
77	11	0.0	0.0	-0.09	0.0	0.0	0.0
77	38	0.0	0.0	-0.05	0.0	0.0	0.0
77	45	0.0	0.0	-0.06	0.0	0.0	0.0
78	1	0.0	0.0	-0.05	0.0	0.0	0.0
78	2	0.0	0.0	-0.05	0.0	0.0	0.0
78	10	0.0	0.0	-0.09	0.0	0.0	0.0
78	11	0.0	0.0	-0.09	0.0	0.0	0.0
78	38	0.0	0.0	-0.05	0.0	0.0	0.0
78	45	0.0	0.0	-0.06	0.0	0.0	0.0
79	1	0.0	0.0	-0.05	0.0	0.0	0.0
79	2	0.0	0.0	-0.05	0.0	0.0	0.0
79	10	0.0	0.0	-0.09	0.0	0.0	0.0
79	11	0.0	0.0	-0.09	0.0	0.0	0.0
79	38	0.0	0.0	-0.05	0.0	0.0	0.0
79	45	0.0	0.0	-0.06	0.0	0.0	0.0
80	1	0.0	0.0	-0.05	0.0	0.0	0.0
80	2	0.0	0.0	-0.05	0.0	0.0	0.0
80	10	0.0	0.0	-0.09	0.0	0.0	0.0
80	11	0.0	0.0	-0.09	0.0	0.0	0.0
80	38	0.0	0.0	-0.05	0.0	0.0	0.0
80	45	0.0	0.0	-0.06	0.0	0.0	0.0
81	1	0.0	0.0	-0.05	0.0	0.0	0.0
81	2	0.0	0.0	-0.05	0.0	0.0	0.0
81	10	0.0	0.0	-0.09	0.0	0.0	0.0
81	11	0.0	0.0	-0.09	0.0	0.0	0.0
81	38	0.0	0.0	-0.05	0.0	0.0	0.0
81	45	0.0	0.0	-0.06	0.0	0.0	0.0
82	1	0.0	0.0	-0.05	0.0	0.0	0.0
82	2	0.0	0.0	-0.05	0.0	0.0	0.0
82	10	0.0	0.0	-0.09	0.0	0.0	0.0
82	11	0.0	0.0	-0.09	0.0	0.0	0.0
82	38	0.0	0.0	-0.05	0.0	0.0	0.0
82	45	0.0	0.0	-0.06	0.0	0.0	0.0
83	1	0.0	0.0	-0.05	0.0	0.0	0.0
83	2	0.0	0.0	-0.05	0.0	0.0	0.0
83	10	0.0	0.0	-0.09	0.0	0.0	0.0
83	11	0.0	0.0	-0.09	0.0	0.0	0.0
83	38	0.0	0.0	-0.05	0.0	0.0	0.0
83	45	0.0	0.0	-0.06	0.0	0.0	0.0
84	1	0.0	0.0	-0.05	0.0	0.0	0.0
84	2	0.0	0.0	-0.05	0.0	0.0	0.0
84	10	0.0	0.0	-0.09	0.0	0.0	0.0
84	11	0.0	0.0	-0.09	0.0	0.0	0.0
84	38	0.0	0.0	-0.05	0.0	0.0	0.0
84	45	0.0	0.0	-0.06	0.0	0.0	0.0
85	1	0.0	0.0	-0.05	0.0	0.0	0.0
85	2	0.0	0.0	-0.05	0.0	0.0	0.0
85	10	0.0	0.0	-0.09	0.0	0.0	0.0
85	11	0.0	0.0	-0.09	0.0	0.0	0.0
85	38	0.0	0.0	-0.05	0.0	0.0	0.0
85	45	0.0	0.0	-0.06	0.0	0.0	0.0

86	1	0.0	0.0	-0.05	0.0	0.0	0.0
86	2	0.0	0.0	-0.05	0.0	0.0	0.0
86	10	0.0	0.0	-0.09	0.0	0.0	0.0
86	11	0.0	0.0	-0.09	0.0	0.0	0.0
86	38	0.0	0.0	-0.05	0.0	0.0	0.0
86	45	0.0	0.0	-0.06	0.0	0.0	0.0
87	1	0.0	0.0	-0.05	0.0	0.0	0.0
87	2	0.0	0.0	-0.05	0.0	0.0	0.0
87	10	0.0	0.0	-0.09	0.0	0.0	0.0
87	11	0.0	0.0	-0.09	0.0	0.0	0.0
87	38	0.0	0.0	-0.05	0.0	0.0	0.0
87	45	0.0	0.0	-0.06	0.0	0.0	0.0
88	1	0.0	0.0	-0.05	0.0	0.0	0.0
88	2	0.0	0.0	-0.05	0.0	0.0	0.0
88	10	0.0	0.0	-0.09	0.0	0.0	0.0
88	11	0.0	0.0	-0.09	0.0	0.0	0.0
88	38	0.0	0.0	-0.05	0.0	0.0	0.0
88	45	0.0	0.0	-0.06	0.0	0.0	0.0
89	1	0.0	0.0	-0.05	0.0	0.0	0.0
89	2	0.0	0.0	-0.05	0.0	0.0	0.0
89	10	0.0	0.0	-0.09	0.0	0.0	0.0
89	11	0.0	0.0	-0.09	0.0	0.0	0.0
89	38	0.0	0.0	-0.05	0.0	0.0	0.0
89	45	0.0	0.0	-0.06	0.0	0.0	0.0
90	1	0.0	0.0	-0.05	0.0	0.0	0.0
90	2	0.0	0.0	-0.05	0.0	0.0	0.0
90	10	0.0	0.0	-0.09	0.0	0.0	0.0
90	11	0.0	0.0	-0.09	0.0	0.0	0.0
90	38	0.0	0.0	-0.05	0.0	0.0	0.0
90	45	0.0	0.0	-0.06	0.0	0.0	0.0
91	1	0.0	0.0	-0.05	0.0	0.0	0.0
91	2	0.0	0.0	-0.05	0.0	0.0	0.0
91	10	0.0	0.0	-0.09	0.0	0.0	0.0
91	11	0.0	0.0	-0.09	0.0	0.0	0.0
91	38	0.0	0.0	-0.05	0.0	0.0	0.0
91	45	0.0	0.0	-0.06	0.0	0.0	0.0
92	1	0.0	0.0	-0.05	0.0	0.0	0.0
92	2	0.0	0.0	-0.05	0.0	0.0	0.0
92	10	0.0	0.0	-0.09	0.0	0.0	0.0
92	11	0.0	0.0	-0.09	0.0	0.0	0.0
92	38	0.0	0.0	-0.05	0.0	0.0	0.0
92	45	0.0	0.0	-0.06	0.0	0.0	0.0
93	1	0.0	0.0	-0.05	0.0	0.0	0.0
93	2	0.0	0.0	-0.05	0.0	0.0	0.0
93	10	0.0	0.0	-0.09	0.0	0.0	0.0
93	11	0.0	0.0	-0.09	0.0	0.0	0.0
93	38	0.0	0.0	-0.05	0.0	0.0	0.0
93	45	0.0	0.0	-0.06	0.0	0.0	0.0
94	1	0.0	0.0	-0.05	0.0	0.0	0.0
94	2	0.0	0.0	-0.05	0.0	0.0	0.0
94	10	0.0	0.0	-0.09	0.0	0.0	0.0
94	11	0.0	0.0	-0.09	0.0	0.0	0.0
94	38	0.0	0.0	-0.05	0.0	0.0	0.0
94	45	0.0	0.0	-0.06	0.0	0.0	0.0
95	1	0.0	0.0	-0.05	0.0	0.0	0.0
95	2	0.0	0.0	-0.05	0.0	0.0	0.0
95	10	0.0	0.0	-0.09	0.0	0.0	0.0
95	11	0.0	0.0	-0.09	0.0	0.0	0.0
95	38	0.0	0.0	-0.05	0.0	0.0	0.0
95	45	0.0	0.0	-0.06	0.0	0.0	0.0
96	1	0.0	0.0	-0.05	0.0	0.0	0.0
96	2	0.0	0.0	-0.05	0.0	0.0	0.0
96	10	0.0	0.0	-0.09	0.0	0.0	0.0
96	11	0.0	0.0	-0.09	0.0	0.0	0.0
96	38	0.0	0.0	-0.05	0.0	0.0	0.0
96	45	0.0	0.0	-0.06	0.0	0.0	0.0
97	1	0.0	0.0	-0.05	0.0	0.0	0.0
97	2	0.0	0.0	-0.05	0.0	0.0	0.0
97	10	0.0	0.0	-0.09	0.0	0.0	0.0
97	11	0.0	0.0	-0.09	0.0	0.0	0.0
97	38	0.0	0.0	-0.05	0.0	0.0	0.0
97	45	0.0	0.0	-0.06	0.0	0.0	0.0
98	1	0.0	0.0	-0.05	0.0	0.0	0.0
98	2	0.0	0.0	-0.05	0.0	0.0	0.0
98	10	0.0	0.0	-0.09	0.0	0.0	0.0
98	11	0.0	0.0	-0.09	0.0	0.0	0.0
98	38	0.0	0.0	-0.05	0.0	0.0	0.0

98	45	0.0	0.0	-0.06	0.0	0.0	0.0
99	1	0.0	0.0	-0.05	0.0	0.0	0.0
99	2	0.0	0.0	-0.05	0.0	0.0	0.0
99	10	0.0	0.0	-0.09	0.0	0.0	0.0
99	11	0.0	0.0	-0.09	0.0	0.0	0.0
99	38	0.0	0.0	-0.05	0.0	0.0	0.0
99	45	0.0	0.0	-0.06	0.0	0.0	0.0
100	1	0.0	0.0	-0.05	0.0	0.0	0.0
100	2	0.0	0.0	-0.05	0.0	0.0	0.0
100	10	0.0	0.0	-0.09	0.0	0.0	0.0
100	11	0.0	0.0	-0.09	0.0	0.0	0.0
100	38	0.0	0.0	-0.05	0.0	0.0	0.0
100	45	0.0	0.0	-0.06	0.0	0.0	0.0
101	1	0.0	0.0	-0.05	0.0	0.0	0.0
101	2	0.0	0.0	-0.05	0.0	0.0	0.0
101	10	0.0	0.0	-0.09	0.0	0.0	0.0
101	11	0.0	0.0	-0.09	0.0	0.0	0.0
101	38	0.0	0.0	-0.05	0.0	0.0	0.0
101	45	0.0	0.0	-0.06	0.0	0.0	0.0
102	1	0.0	0.0	-0.05	0.0	0.0	0.0
102	2	0.0	0.0	-0.05	0.0	0.0	0.0
102	10	0.0	0.0	-0.09	0.0	0.0	0.0
102	11	0.0	0.0	-0.09	0.0	0.0	0.0
102	38	0.0	0.0	-0.05	0.0	0.0	0.0
102	45	0.0	0.0	-0.06	0.0	0.0	0.0
103	1	0.0	0.0	-0.05	0.0	0.0	0.0
103	2	0.0	0.0	-0.05	0.0	0.0	0.0
103	10	0.0	0.0	-0.09	0.0	0.0	0.0
103	11	0.0	0.0	-0.09	0.0	0.0	0.0
103	38	0.0	0.0	-0.05	0.0	0.0	0.0
103	45	0.0	0.0	-0.06	0.0	0.0	0.0
104	1	0.0	0.0	-0.05	0.0	0.0	0.0
104	2	0.0	0.0	-0.05	0.0	0.0	0.0
104	10	0.0	0.0	-0.09	0.0	0.0	0.0
104	11	0.0	0.0	-0.09	0.0	0.0	0.0
104	38	0.0	0.0	-0.05	0.0	0.0	0.0
104	45	0.0	0.0	-0.06	0.0	0.0	0.0
105	1	0.0	0.0	-0.05	0.0	0.0	0.0
105	2	0.0	0.0	-0.05	0.0	0.0	0.0
105	10	0.0	0.0	-0.09	0.0	0.0	0.0
105	11	0.0	0.0	-0.09	0.0	0.0	0.0
105	38	0.0	0.0	-0.05	0.0	0.0	0.0
105	45	0.0	0.0	-0.06	0.0	0.0	0.0
106	1	0.0	0.0	-0.05	0.0	0.0	0.0
106	2	0.0	0.0	-0.05	0.0	0.0	0.0
106	10	0.0	0.0	-0.09	0.0	0.0	0.0
106	11	0.0	0.0	-0.09	0.0	0.0	0.0
106	38	0.0	0.0	-0.05	0.0	0.0	0.0
106	45	0.0	0.0	-0.06	0.0	0.0	0.0
107	1	0.0	0.0	-0.05	0.0	0.0	0.0
107	2	0.0	0.0	-0.05	0.0	0.0	0.0
107	10	0.0	0.0	-0.09	0.0	0.0	0.0
107	11	0.0	0.0	-0.09	0.0	0.0	0.0
107	38	0.0	0.0	-0.05	0.0	0.0	0.0
107	45	0.0	0.0	-0.06	0.0	0.0	0.0
108	1	0.0	0.0	-0.05	0.0	0.0	0.0
108	2	0.0	0.0	-0.05	0.0	0.0	0.0
108	10	0.0	0.0	-0.09	0.0	0.0	0.0
108	11	0.0	0.0	-0.09	0.0	0.0	0.0
108	38	0.0	0.0	-0.05	0.0	0.0	0.0
108	45	0.0	0.0	-0.06	0.0	0.0	0.0
109	1	0.0	0.0	-0.05	0.0	0.0	0.0
109	2	0.0	0.0	-0.05	0.0	0.0	0.0
109	10	0.0	0.0	-0.09	0.0	0.0	0.0
109	11	0.0	0.0	-0.09	0.0	0.0	0.0
109	38	0.0	0.0	-0.05	0.0	0.0	0.0
109	45	0.0	0.0	-0.06	0.0	0.0	0.0
110	1	0.0	0.0	-0.05	0.0	0.0	0.0
110	2	0.0	0.0	-0.05	0.0	0.0	0.0
110	10	0.0	0.0	-0.09	0.0	0.0	0.0
110	11	0.0	0.0	-0.09	0.0	0.0	0.0
110	38	0.0	0.0	-0.05	0.0	0.0	0.0
110	45	0.0	0.0	-0.06	0.0	0.0	0.0
111	1	0.0	0.0	-0.05	0.0	0.0	0.0
111	2	0.0	0.0	-0.05	0.0	0.0	0.0
111	10	0.0	0.0	-0.09	0.0	0.0	0.0
111	11	0.0	0.0	-0.09	0.0	0.0	0.0

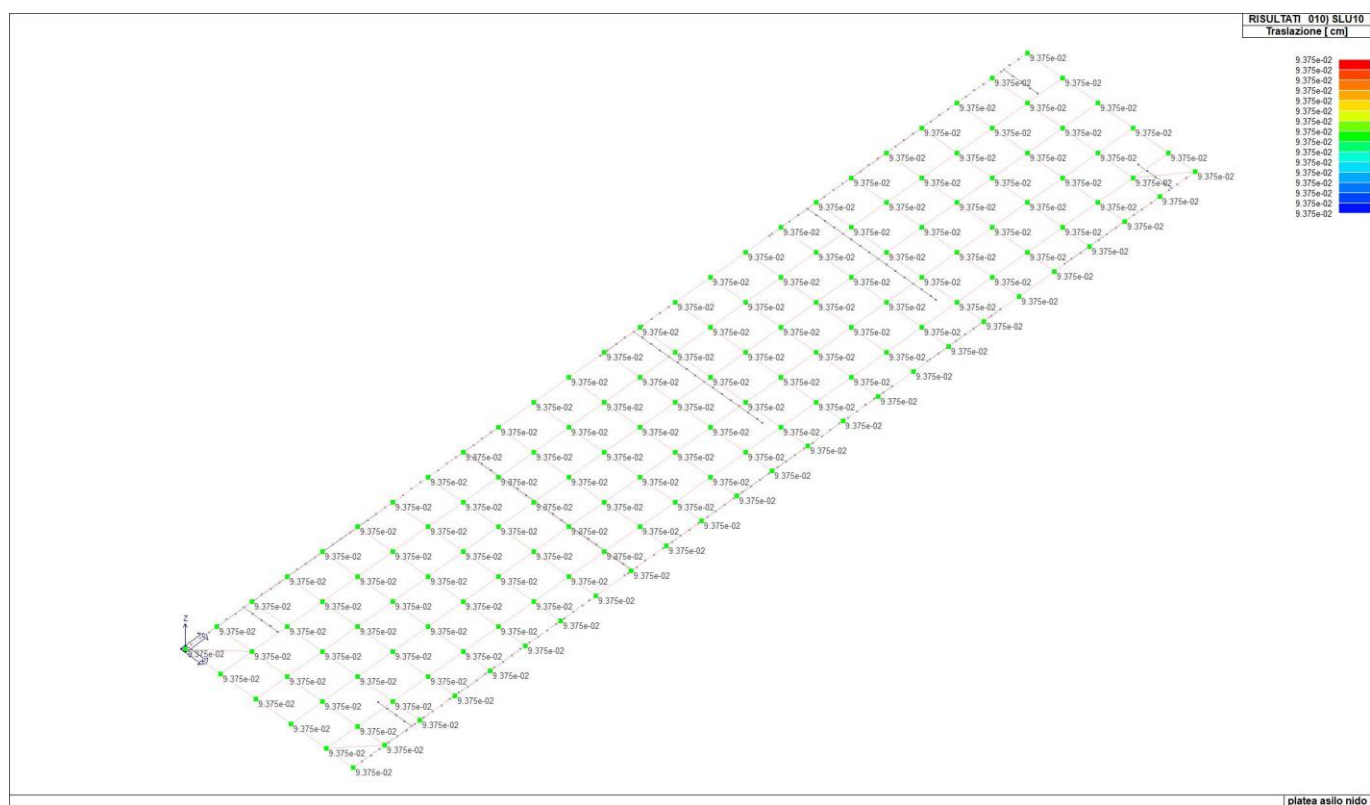
111	38	0.0	0.0	-0.05	0.0	0.0	0.0
111	45	0.0	0.0	-0.06	0.0	0.0	0.0
112	1	0.0	0.0	-0.05	0.0	0.0	0.0
112	2	0.0	0.0	-0.05	0.0	0.0	0.0
112	10	0.0	0.0	-0.09	0.0	0.0	0.0
112	11	0.0	0.0	-0.09	0.0	0.0	0.0
112	38	0.0	0.0	-0.05	0.0	0.0	0.0
112	45	0.0	0.0	-0.06	0.0	0.0	0.0
113	1	0.0	0.0	-0.05	0.0	0.0	0.0
113	2	0.0	0.0	-0.05	0.0	0.0	0.0
113	10	0.0	0.0	-0.09	0.0	0.0	0.0
113	11	0.0	0.0	-0.09	0.0	0.0	0.0
113	38	0.0	0.0	-0.05	0.0	0.0	0.0
113	45	0.0	0.0	-0.06	0.0	0.0	0.0
114	1	0.0	0.0	-0.05	0.0	0.0	0.0
114	2	0.0	0.0	-0.05	0.0	0.0	0.0
114	10	0.0	0.0	-0.09	0.0	0.0	0.0
114	11	0.0	0.0	-0.09	0.0	0.0	0.0
114	38	0.0	0.0	-0.05	0.0	0.0	0.0
114	45	0.0	0.0	-0.06	0.0	0.0	0.0
115	1	0.0	0.0	-0.05	0.0	0.0	0.0
115	2	0.0	0.0	-0.05	0.0	0.0	0.0
115	10	0.0	0.0	-0.09	0.0	0.0	0.0
115	11	0.0	0.0	-0.09	0.0	0.0	0.0
115	38	0.0	0.0	-0.05	0.0	0.0	0.0
115	45	0.0	0.0	-0.06	0.0	0.0	0.0
116	1	0.0	0.0	-0.05	0.0	0.0	0.0
116	2	0.0	0.0	-0.05	0.0	0.0	0.0
116	10	0.0	0.0	-0.09	0.0	0.0	0.0
116	11	0.0	0.0	-0.09	0.0	0.0	0.0
116	38	0.0	0.0	-0.05	0.0	0.0	0.0
116	45	0.0	0.0	-0.06	0.0	0.0	0.0
117	1	0.0	0.0	-0.05	0.0	0.0	0.0
117	2	0.0	0.0	-0.05	0.0	0.0	0.0
117	10	0.0	0.0	-0.09	0.0	0.0	0.0
117	11	0.0	0.0	-0.09	0.0	0.0	0.0
117	38	0.0	0.0	-0.05	0.0	0.0	0.0
117	45	0.0	0.0	-0.06	0.0	0.0	0.0
118	1	0.0	0.0	-0.05	0.0	0.0	0.0
118	2	0.0	0.0	-0.05	0.0	0.0	0.0
118	10	0.0	0.0	-0.09	0.0	0.0	0.0
118	11	0.0	0.0	-0.09	0.0	0.0	0.0
118	38	0.0	0.0	-0.05	0.0	0.0	0.0
118	45	0.0	0.0	-0.06	0.0	0.0	0.0
119	1	0.0	0.0	-0.05	0.0	0.0	0.0
119	2	0.0	0.0	-0.05	0.0	0.0	0.0
119	10	0.0	0.0	-0.09	0.0	0.0	0.0
119	11	0.0	0.0	-0.09	0.0	0.0	0.0
119	38	0.0	0.0	-0.05	0.0	0.0	0.0
119	45	0.0	0.0	-0.06	0.0	0.0	0.0
120	1	0.0	0.0	-0.05	0.0	0.0	0.0
120	2	0.0	0.0	-0.05	0.0	0.0	0.0
120	10	0.0	0.0	-0.09	0.0	0.0	0.0
120	11	0.0	0.0	-0.09	0.0	0.0	0.0
120	38	0.0	0.0	-0.05	0.0	0.0	0.0
120	45	0.0	0.0	-0.06	0.0	0.0	0.0
121	1	0.0	0.0	-0.05	0.0	0.0	0.0
121	2	0.0	0.0	-0.05	0.0	0.0	0.0
121	10	0.0	0.0	-0.09	0.0	0.0	0.0
121	11	0.0	0.0	-0.09	0.0	0.0	0.0
121	38	0.0	0.0	-0.05	0.0	0.0	0.0
121	45	0.0	0.0	-0.06	0.0	0.0	0.0
122	1	0.0	0.0	-0.05	0.0	0.0	0.0
122	2	0.0	0.0	-0.05	0.0	0.0	0.0
122	10	0.0	0.0	-0.09	0.0	0.0	0.0
122	11	0.0	0.0	-0.09	0.0	0.0	0.0
122	38	0.0	0.0	-0.05	0.0	0.0	0.0
122	45	0.0	0.0	-0.06	0.0	0.0	0.0
123	1	0.0	0.0	-0.05	0.0	0.0	0.0
123	2	0.0	0.0	-0.05	0.0	0.0	0.0
123	10	0.0	0.0	-0.09	0.0	0.0	0.0
123	11	0.0	0.0	-0.09	0.0	0.0	0.0
123	38	0.0	0.0	-0.05	0.0	0.0	0.0
123	45	0.0	0.0	-0.06	0.0	0.0	0.0
124	1	0.0	0.0	-0.05	0.0	0.0	0.0
124	2	0.0	0.0	-0.05	0.0	0.0	0.0
124	10	0.0	0.0	-0.09	0.0	0.0	0.0

124	11	0.0	0.0	-0.09	0.0	0.0	0.0
124	38	0.0	0.0	-0.05	0.0	0.0	0.0
124	45	0.0	0.0	-0.06	0.0	0.0	0.0
125	1	0.0	0.0	-0.05	0.0	0.0	0.0
125	2	0.0	0.0	-0.05	0.0	0.0	0.0
125	10	0.0	0.0	-0.09	0.0	0.0	0.0
125	11	0.0	0.0	-0.09	0.0	0.0	0.0
125	38	0.0	0.0	-0.05	0.0	0.0	0.0
125	45	0.0	0.0	-0.06	0.0	0.0	0.0
126	1	0.0	0.0	-0.05	0.0	0.0	0.0
126	2	0.0	0.0	-0.05	0.0	0.0	0.0
126	10	0.0	0.0	-0.09	0.0	0.0	0.0
126	11	0.0	0.0	-0.09	0.0	0.0	0.0
126	38	0.0	0.0	-0.05	0.0	0.0	0.0
126	45	0.0	0.0	-0.06	0.0	0.0	0.0
127	1	0.0	0.0	-0.05	0.0	0.0	0.0
127	2	0.0	0.0	-0.05	0.0	0.0	0.0
127	10	0.0	0.0	-0.09	0.0	0.0	0.0
127	11	0.0	0.0	-0.09	0.0	0.0	0.0
127	38	0.0	0.0	-0.05	0.0	0.0	0.0
127	45	0.0	0.0	-0.06	0.0	0.0	0.0
128	1	0.0	0.0	-0.05	0.0	0.0	0.0
128	2	0.0	0.0	-0.05	0.0	0.0	0.0
128	10	0.0	0.0	-0.09	0.0	0.0	0.0
128	11	0.0	0.0	-0.09	0.0	0.0	0.0
128	38	0.0	0.0	-0.05	0.0	0.0	0.0
128	45	0.0	0.0	-0.06	0.0	0.0	0.0
129	1	0.0	0.0	-0.05	0.0	0.0	0.0
129	2	0.0	0.0	-0.05	0.0	0.0	0.0
129	10	0.0	0.0	-0.09	0.0	0.0	0.0
129	11	0.0	0.0	-0.09	0.0	0.0	0.0
129	38	0.0	0.0	-0.05	0.0	0.0	0.0
129	45	0.0	0.0	-0.06	0.0	0.0	0.0
130	1	0.0	0.0	-0.05	0.0	0.0	0.0
130	2	0.0	0.0	-0.05	0.0	0.0	0.0
130	10	0.0	0.0	-0.09	0.0	0.0	0.0
130	11	0.0	0.0	-0.09	0.0	0.0	0.0
130	38	0.0	0.0	-0.05	0.0	0.0	0.0
130	45	0.0	0.0	-0.06	0.0	0.0	0.0
131	1	0.0	0.0	-0.05	0.0	0.0	0.0
131	2	0.0	0.0	-0.05	0.0	0.0	0.0
131	10	0.0	0.0	-0.09	0.0	0.0	0.0
131	11	0.0	0.0	-0.09	0.0	0.0	0.0
131	38	0.0	0.0	-0.05	0.0	0.0	0.0
131	45	0.0	0.0	-0.06	0.0	0.0	0.0
132	1	0.0	0.0	-0.05	0.0	0.0	0.0
132	2	0.0	0.0	-0.05	0.0	0.0	0.0
132	10	0.0	0.0	-0.09	0.0	0.0	0.0
132	11	0.0	0.0	-0.09	0.0	0.0	0.0
132	38	0.0	0.0	-0.05	0.0	0.0	0.0
132	45	0.0	0.0	-0.06	0.0	0.0	0.0
133	1	0.0	0.0	-0.05	0.0	0.0	0.0
133	2	0.0	0.0	-0.05	0.0	0.0	0.0
133	10	0.0	0.0	-0.09	0.0	0.0	0.0
133	11	0.0	0.0	-0.09	0.0	0.0	0.0
133	38	0.0	0.0	-0.05	0.0	0.0	0.0
133	45	0.0	0.0	-0.06	0.0	0.0	0.0
134	1	0.0	0.0	-0.05	0.0	0.0	0.0
134	2	0.0	0.0	-0.05	0.0	0.0	0.0
134	10	0.0	0.0	-0.09	0.0	0.0	0.0
134	11	0.0	0.0	-0.09	0.0	0.0	0.0
134	38	0.0	0.0	-0.05	0.0	0.0	0.0
134	45	0.0	0.0	-0.06	0.0	0.0	0.0
135	1	0.0	0.0	-0.05	0.0	0.0	0.0
135	2	0.0	0.0	-0.05	0.0	0.0	0.0
135	10	0.0	0.0	-0.09	0.0	0.0	0.0
135	11	0.0	0.0	-0.09	0.0	0.0	0.0
135	38	0.0	0.0	-0.05	0.0	0.0	0.0
135	45	0.0	0.0	-0.06	0.0	0.0	0.0
136	1	0.0	0.0	-0.05	0.0	0.0	0.0
136	2	0.0	0.0	-0.05	0.0	0.0	0.0
136	10	0.0	0.0	-0.09	0.0	0.0	0.0
136	11	0.0	0.0	-0.09	0.0	0.0	0.0
136	38	0.0	0.0	-0.05	0.0	0.0	0.0
136	45	0.0	0.0	-0.06	0.0	0.0	0.0
137	1	0.0	0.0	-0.05	0.0	0.0	0.0
137	2	0.0	0.0	-0.05	0.0	0.0	0.0

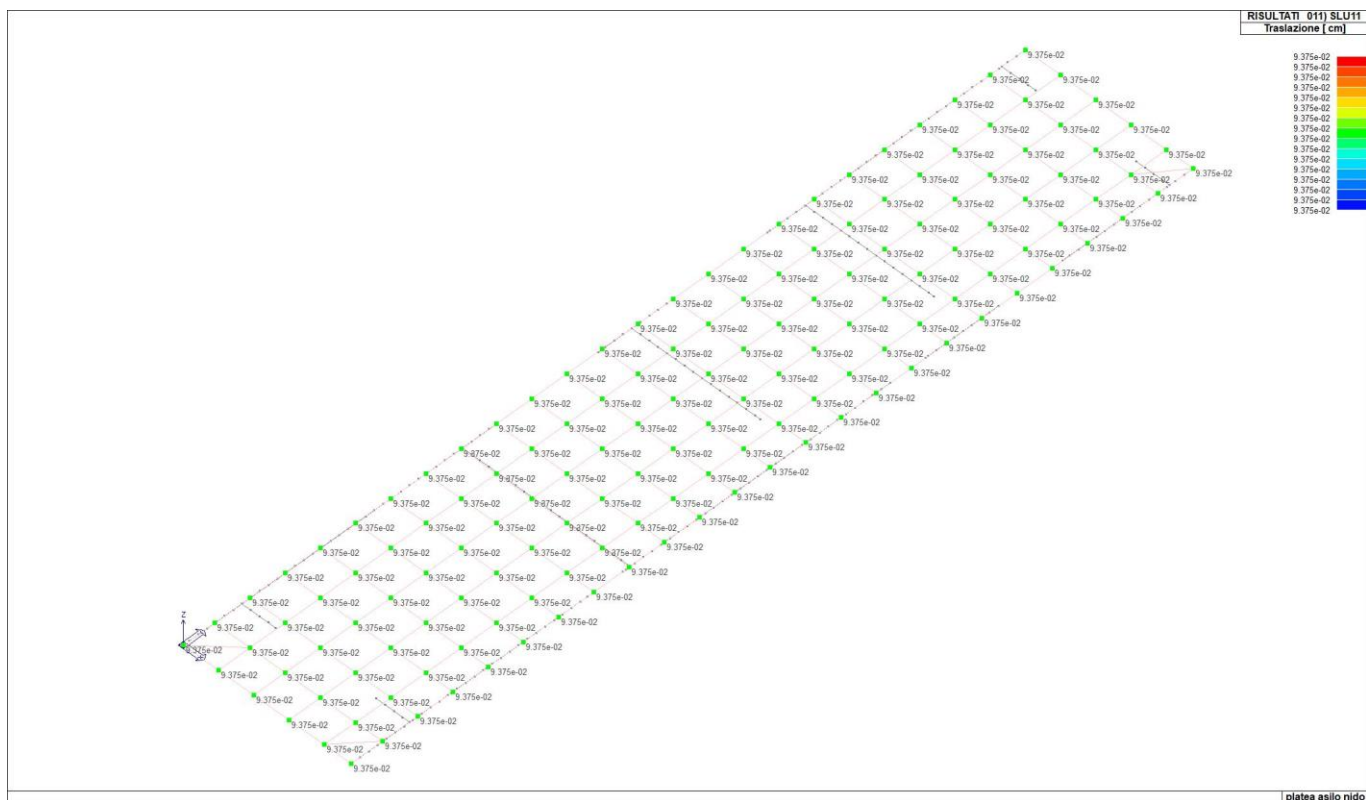
137	10	0.0	0.0	-0.09	0.0	0.0	0.0
137	11	0.0	0.0	-0.09	0.0	0.0	0.0
137	38	0.0	0.0	-0.05	0.0	0.0	0.0
137	45	0.0	0.0	-0.06	0.0	0.0	0.0
138	1	0.0	0.0	-0.05	0.0	0.0	0.0
138	2	0.0	0.0	-0.05	0.0	0.0	0.0
138	10	0.0	0.0	-0.09	0.0	0.0	0.0
138	11	0.0	0.0	-0.09	0.0	0.0	0.0
138	38	0.0	0.0	-0.05	0.0	0.0	0.0
138	45	0.0	0.0	-0.06	0.0	0.0	0.0
139	1	0.0	0.0	-0.05	0.0	0.0	0.0
139	2	0.0	0.0	-0.05	0.0	0.0	0.0
139	10	0.0	0.0	-0.09	0.0	0.0	0.0
139	11	0.0	0.0	-0.09	0.0	0.0	0.0
139	38	0.0	0.0	-0.05	0.0	0.0	0.0
139	45	0.0	0.0	-0.06	0.0	0.0	0.0
140	1	0.0	0.0	-0.05	0.0	0.0	0.0
140	2	0.0	0.0	-0.05	0.0	0.0	0.0
140	10	0.0	0.0	-0.09	0.0	0.0	0.0
140	11	0.0	0.0	-0.09	0.0	0.0	0.0
140	38	0.0	0.0	-0.05	0.0	0.0	0.0
140	45	0.0	0.0	-0.06	0.0	0.0	0.0
141	1	0.0	0.0	-0.05	0.0	0.0	0.0
141	2	0.0	0.0	-0.05	0.0	0.0	0.0
141	10	0.0	0.0	-0.09	0.0	0.0	0.0
141	11	0.0	0.0	-0.09	0.0	0.0	0.0
141	38	0.0	0.0	-0.05	0.0	0.0	0.0
141	45	0.0	0.0	-0.06	0.0	0.0	0.0
142	1	0.0	0.0	-0.05	0.0	0.0	0.0
142	2	0.0	0.0	-0.05	0.0	0.0	0.0
142	10	0.0	0.0	-0.09	0.0	0.0	0.0
142	11	0.0	0.0	-0.09	0.0	0.0	0.0
142	38	0.0	0.0	-0.05	0.0	0.0	0.0
142	45	0.0	0.0	-0.06	0.0	0.0	0.0
143	1	0.0	0.0	-0.05	0.0	0.0	0.0
143	2	0.0	0.0	-0.05	0.0	0.0	0.0
143	10	0.0	0.0	-0.09	0.0	0.0	0.0
143	11	0.0	0.0	-0.09	0.0	0.0	0.0
143	38	0.0	0.0	-0.05	0.0	0.0	0.0
143	45	0.0	0.0	-0.06	0.0	0.0	0.0
144	1	0.0	0.0	-0.05	0.0	0.0	0.0
144	2	0.0	0.0	-0.05	0.0	0.0	0.0
144	10	0.0	0.0	-0.09	0.0	0.0	0.0
144	11	0.0	0.0	-0.09	0.0	0.0	0.0
144	38	0.0	0.0	-0.05	0.0	0.0	0.0
144	45	0.0	0.0	-0.06	0.0	0.0	0.0
145	1	0.0	0.0	-0.05	0.0	0.0	0.0
145	2	0.0	0.0	-0.05	0.0	0.0	0.0
145	10	0.0	0.0	-0.09	0.0	0.0	0.0
145	11	0.0	0.0	-0.09	0.0	0.0	0.0
145	38	0.0	0.0	-0.05	0.0	0.0	0.0
145	45	0.0	0.0	-0.06	0.0	0.0	0.0
146	1	0.0	0.0	-0.05	0.0	0.0	0.0
146	2	0.0	0.0	-0.05	0.0	0.0	0.0
146	10	0.0	0.0	-0.09	0.0	0.0	0.0
146	11	0.0	0.0	-0.09	0.0	0.0	0.0
146	38	0.0	0.0	-0.05	0.0	0.0	0.0
146	45	0.0	0.0	-0.06	0.0	0.0	0.0
147	1	0.0	0.0	-0.05	0.0	0.0	0.0
147	2	0.0	0.0	-0.05	0.0	0.0	0.0
147	10	0.0	0.0	-0.09	0.0	0.0	0.0
147	11	0.0	0.0	-0.09	0.0	0.0	0.0
147	38	0.0	0.0	-0.05	0.0	0.0	0.0
147	45	0.0	0.0	-0.06	0.0	0.0	0.0
148	1	0.0	0.0	-0.05	0.0	0.0	0.0
148	2	0.0	0.0	-0.05	0.0	0.0	0.0
148	10	0.0	0.0	-0.09	0.0	0.0	0.0
148	11	0.0	0.0	-0.09	0.0	0.0	0.0
148	38	0.0	0.0	-0.05	0.0	0.0	0.0
148	45	0.0	0.0	-0.06	0.0	0.0	0.0
149	1	0.0	0.0	-0.05	0.0	0.0	0.0
149	2	0.0	0.0	-0.05	0.0	0.0	0.0
149	10	0.0	0.0	-0.09	0.0	0.0	0.0
149	11	0.0	0.0	-0.09	0.0	0.0	0.0
149	38	0.0	0.0	-0.05	0.0	0.0	0.0
149	45	0.0	0.0	-0.06	0.0	0.0	0.0
150	1	0.0	0.0	-0.05	0.0	0.0	0.0

150	2	0.0	0.0	-0.05	0.0	0.0	0.0
150	10	0.0	0.0	-0.09	0.0	0.0	0.0
150	11	0.0	0.0	-0.09	0.0	0.0	0.0
150	38	0.0	0.0	-0.05	0.0	0.0	0.0
150	45	0.0	0.0	-0.06	0.0	0.0	0.0

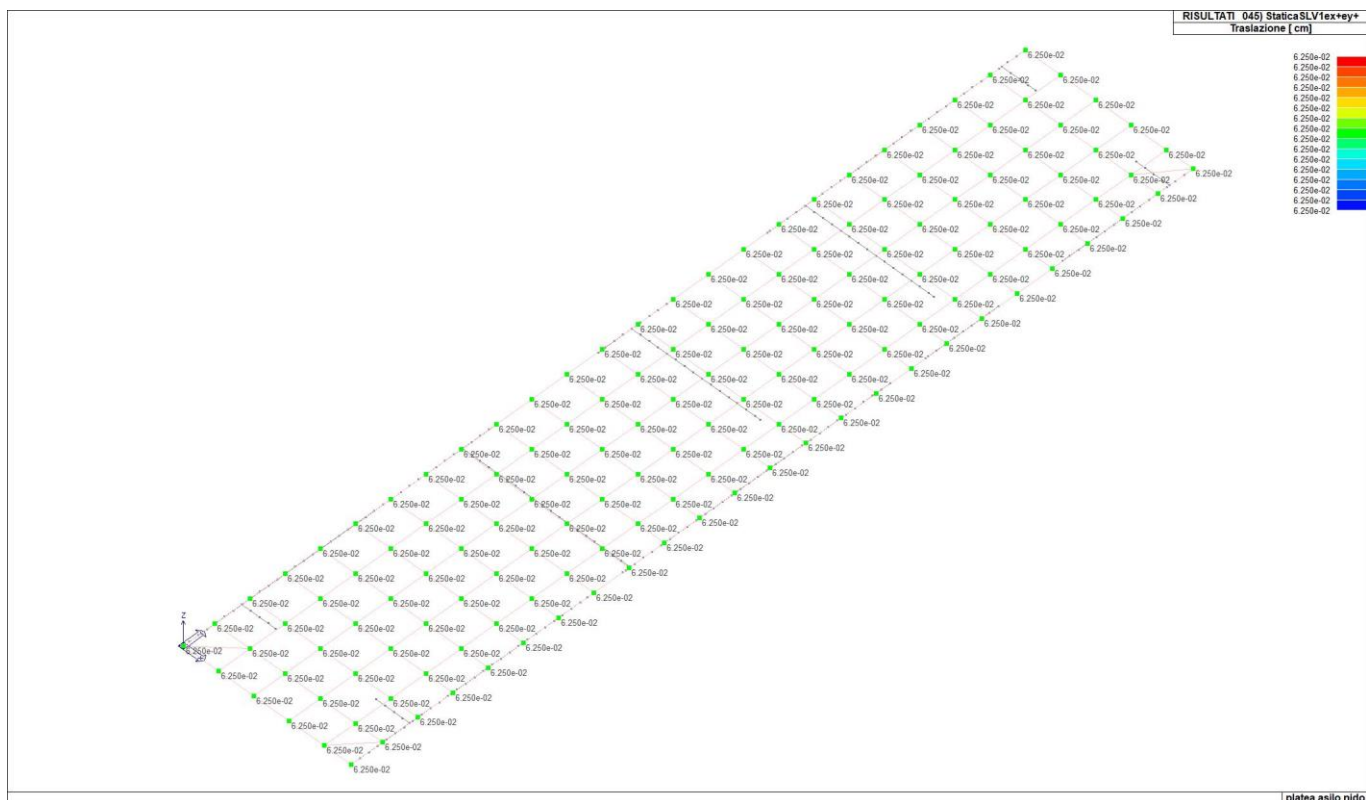
Nodo	Traslazione X	Traslazione Y	Traslazione Z	Rotazione X	Rotazione Y	Rotazione Z
	0.0	0.0	-0.09	0.0	0.0	0.0
	0.0	0.0	-0.05	0.0	0.0	0.0



41_RIS_SPOSTAMENTI_010_SLU10



41_RIS_SPOSTAMENTI_011_SLU11



41_RIS_SPOSTAMENTI_045_StaticaSLV1ex+ey+

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

RISULTATI OPERE DI FONDAZIONE

LEGENDA RISULTATI OPERE DI FONDAZIONE

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

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

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

In particolare viene riportato:

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

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

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

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

In particolare viene riportato:

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

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

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

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

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

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

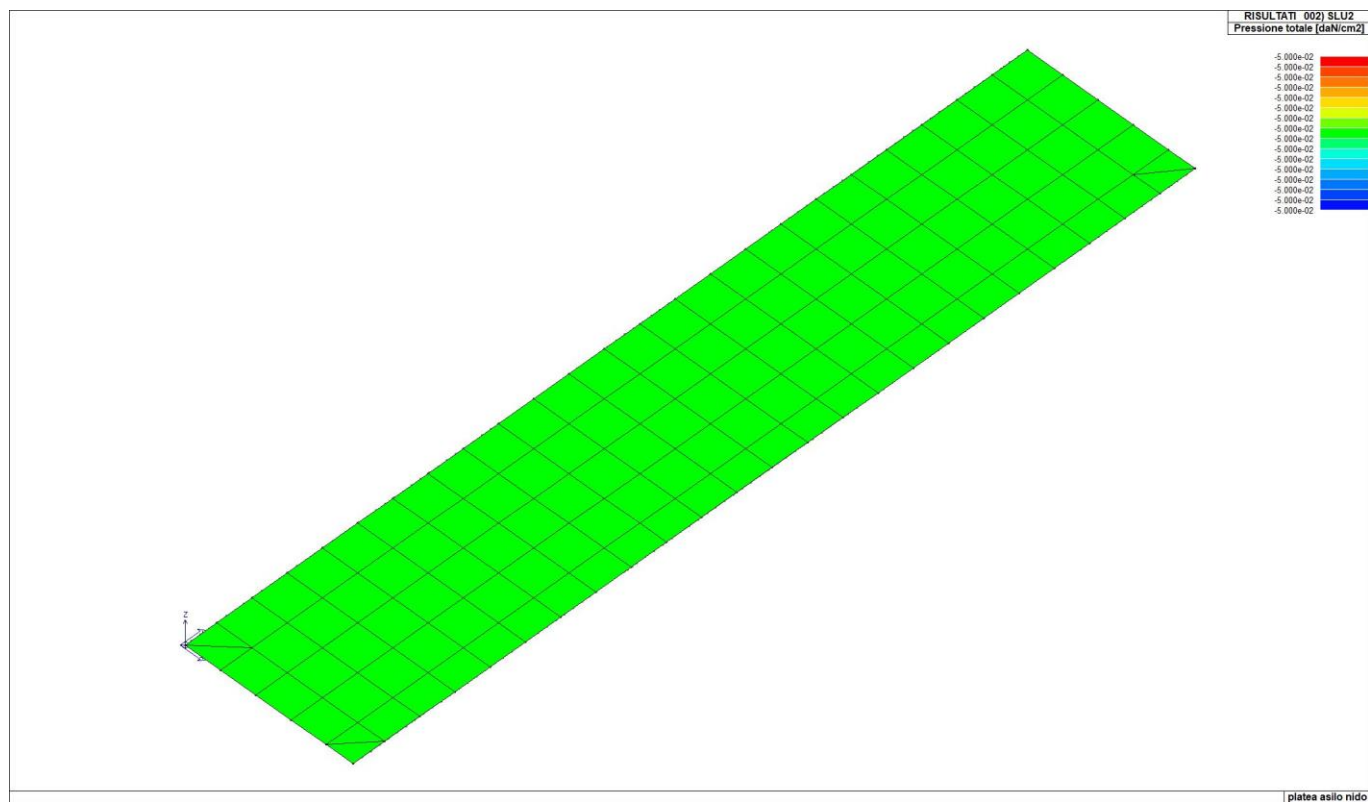
Nodo (G) Pt 1/12 Pt 2/13 Pt 3... Pt 4...

	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2
1	-0.09	-0.09	-0.06								
2	-0.09	-0.09	-0.06								
3	-0.09	-0.09	-0.06								
4	-0.09	-0.09	-0.06								
5	-0.09	-0.09	-0.06								
6	-0.09	-0.09	-0.06								
7	-0.09	-0.09	-0.06								
8	-0.09	-0.09	-0.06								
9	-0.09	-0.09	-0.06								
10	-0.09	-0.09	-0.06								
11	-0.09	-0.09	-0.06								
12	-0.09	-0.09	-0.06								
13	-0.09	-0.09	-0.06								
14	-0.09	-0.09	-0.06								
15	-0.09	-0.09	-0.06								
16	-0.09	-0.09	-0.06								
17	-0.09	-0.09	-0.06								
18	-0.09	-0.09	-0.06								
19	-0.09	-0.09	-0.06								
20	-0.09	-0.09	-0.06								
21	-0.09	-0.09	-0.06								
22	-0.09	-0.09	-0.06								
23	-0.09	-0.09	-0.06								
24	-0.09	-0.09	-0.06								
25	-0.09	-0.09	-0.06								
26	-0.09	-0.09	-0.06								
27	-0.09	-0.09	-0.06								
28	-0.09	-0.09	-0.06								
29	-0.09	-0.09	-0.06								
30	-0.09	-0.09	-0.06								
31	-0.09	-0.09	-0.06								
32	-0.09	-0.09	-0.06								
33	-0.09	-0.09	-0.06								
34	-0.09	-0.09	-0.06								
35	-0.09	-0.09	-0.06								
36	-0.09	-0.09	-0.06								
37	-0.09	-0.09	-0.06								
38	-0.09	-0.09	-0.06								
39	-0.09	-0.09	-0.06								
40	-0.09	-0.09	-0.06								
41	-0.09	-0.09	-0.06								
42	-0.09	-0.09	-0.06								
43	-0.09	-0.09	-0.06								
44	-0.09	-0.09	-0.06								
45	-0.09	-0.09	-0.06								
46	-0.09	-0.09	-0.06								
47	-0.09	-0.09	-0.06								
48	-0.09	-0.09	-0.06								
49	-0.09	-0.09	-0.06								
50	-0.09	-0.09	-0.06								
51	-0.09	-0.09	-0.06								
52	-0.09	-0.09	-0.06								
53	-0.09	-0.09	-0.06								
54	-0.09	-0.09	-0.06								
55	-0.09	-0.09	-0.06								
56	-0.09	-0.09	-0.06								
57	-0.09	-0.09	-0.06								
58	-0.09	-0.09	-0.06								
59	-0.09	-0.09	-0.06								
60	-0.09	-0.09	-0.06								
61	-0.09	-0.09	-0.06								
62	-0.09	-0.09	-0.06								
63	-0.09	-0.09	-0.06								
64	-0.09	-0.09	-0.06								
65	-0.09	-0.09	-0.06								
66	-0.09	-0.09	-0.06								
67	-0.09	-0.09	-0.06								
68	-0.09	-0.09	-0.06								
69	-0.09	-0.09	-0.06								
70	-0.09	-0.09	-0.06								
71	-0.09	-0.09	-0.06								
72	-0.09	-0.09	-0.06								
73	-0.09	-0.09	-0.06								
74	-0.09	-0.09	-0.06								
75	-0.09	-0.09	-0.06								
76	-0.09	-0.09	-0.06								

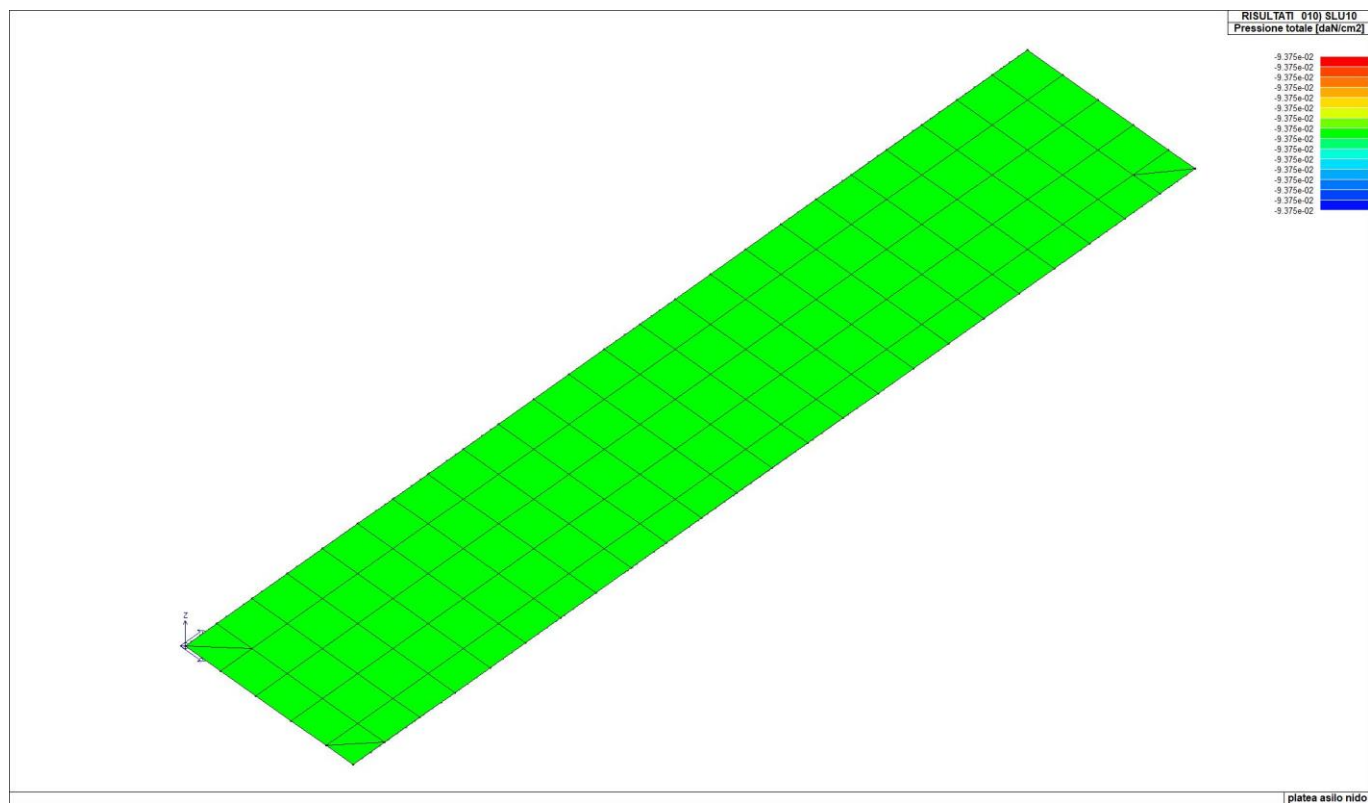
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78	-0.09	-0.09	-0.06
79	-0.09	-0.09	-0.06
80	-0.09	-0.09	-0.06
81	-0.09	-0.09	-0.06
82	-0.09	-0.09	-0.06
83	-0.09	-0.09	-0.06
84	-0.09	-0.09	-0.06
85	-0.09	-0.09	-0.06
86	-0.09	-0.09	-0.06
87	-0.09	-0.09	-0.06
88	-0.09	-0.09	-0.06
89	-0.09	-0.09	-0.06
90	-0.09	-0.09	-0.06
91	-0.09	-0.09	-0.06
92	-0.09	-0.09	-0.06
93	-0.09	-0.09	-0.06
94	-0.09	-0.09	-0.06
95	-0.09	-0.09	-0.06
96	-0.09	-0.09	-0.06
97	-0.09	-0.09	-0.06
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99	-0.09	-0.09	-0.06
100	-0.09	-0.09	-0.06
101	-0.09	-0.09	-0.06
102	-0.09	-0.09	-0.06
103	-0.09	-0.09	-0.06
104	-0.09	-0.09	-0.06
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107	-0.09	-0.09	-0.06
108	-0.09	-0.09	-0.06
109	-0.09	-0.09	-0.06
110	-0.09	-0.09	-0.06
111	-0.09	-0.09	-0.06
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113	-0.09	-0.09	-0.06
114	-0.09	-0.09	-0.06
115	-0.09	-0.09	-0.06
116	-0.09	-0.09	-0.06
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121	-0.09	-0.09	-0.06
122	-0.09	-0.09	-0.06
123	-0.09	-0.09	-0.06
124	-0.09	-0.09	-0.06
125	-0.09	-0.09	-0.06
126	-0.09	-0.09	-0.06
127	-0.09	-0.09	-0.06
128	-0.09	-0.09	-0.06
129	-0.09	-0.09	-0.06
130	-0.09	-0.09	-0.06
131	-0.09	-0.09	-0.06
132	-0.09	-0.09	-0.06
133	-0.09	-0.09	-0.06
134	-0.09	-0.09	-0.06
135	-0.09	-0.09	-0.06
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138	-0.09	-0.09	-0.06
139	-0.09	-0.09	-0.06
140	-0.09	-0.09	-0.06
141	-0.09	-0.09	-0.06
142	-0.09	-0.09	-0.06
143	-0.09	-0.09	-0.06
144	-0.09	-0.09	-0.06
145	-0.09	-0.09	-0.06
146	-0.09	-0.09	-0.06
147	-0.09	-0.09	-0.06
148	-0.09	-0.09	-0.06
149	-0.09	-0.09	-0.06
150	-0.09	-0.09	-0.06

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...
	-0.09			

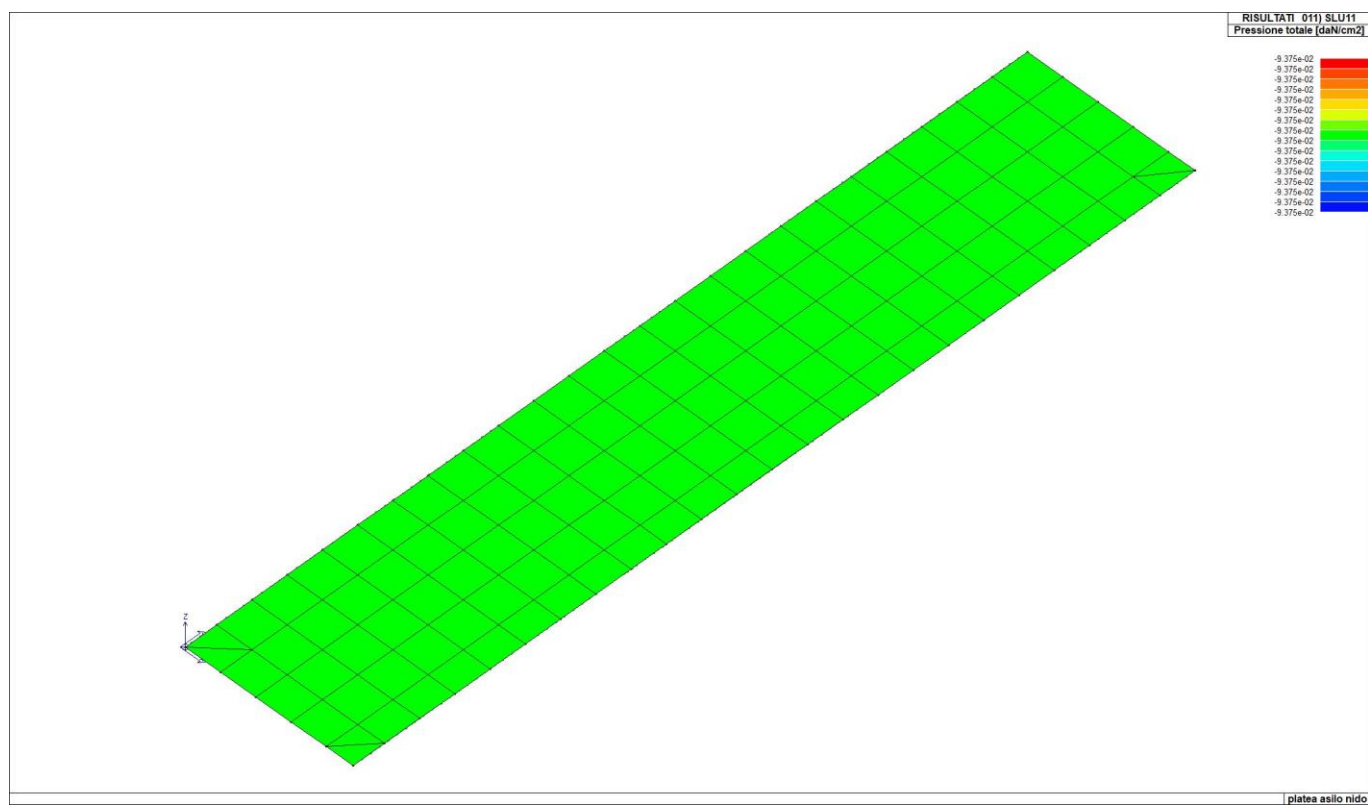




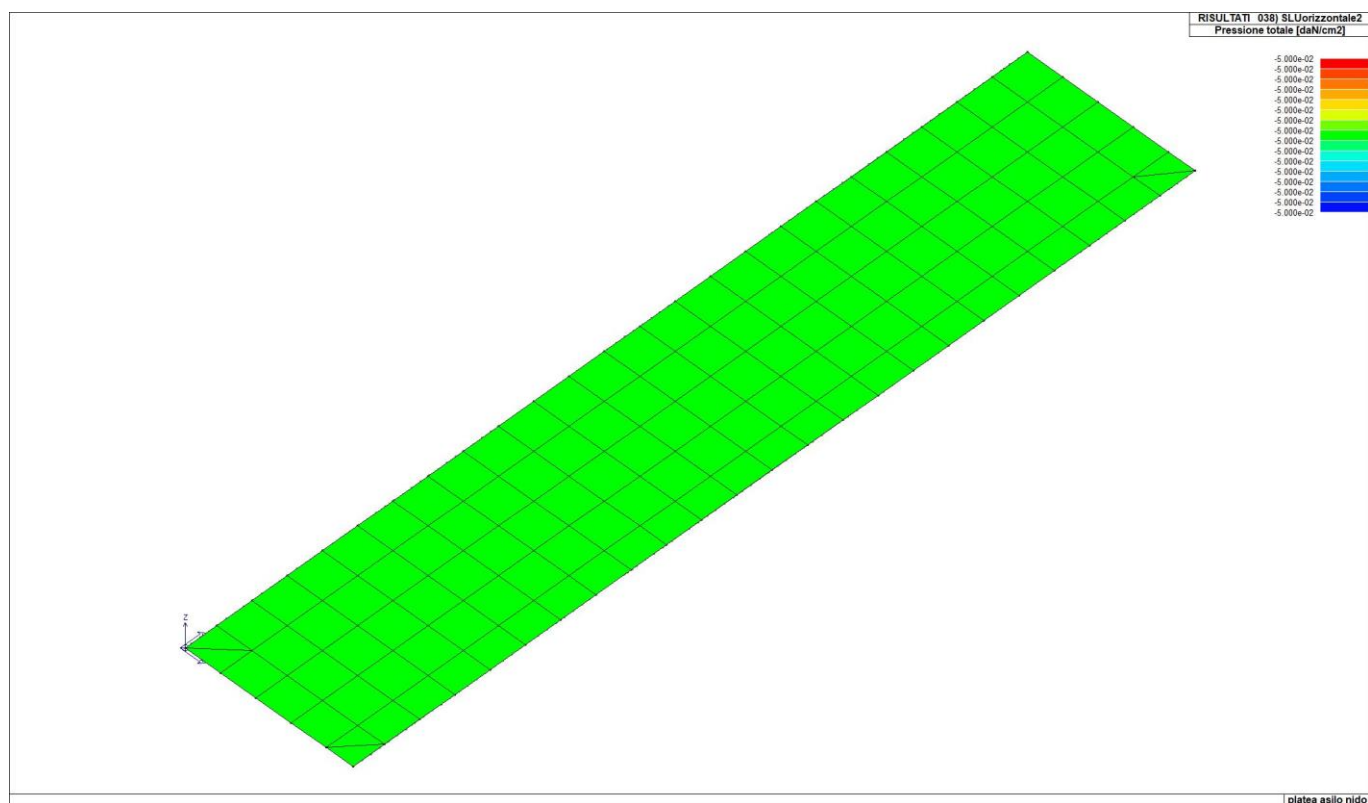
46_RIS_PRESSIONI_002_SLU2



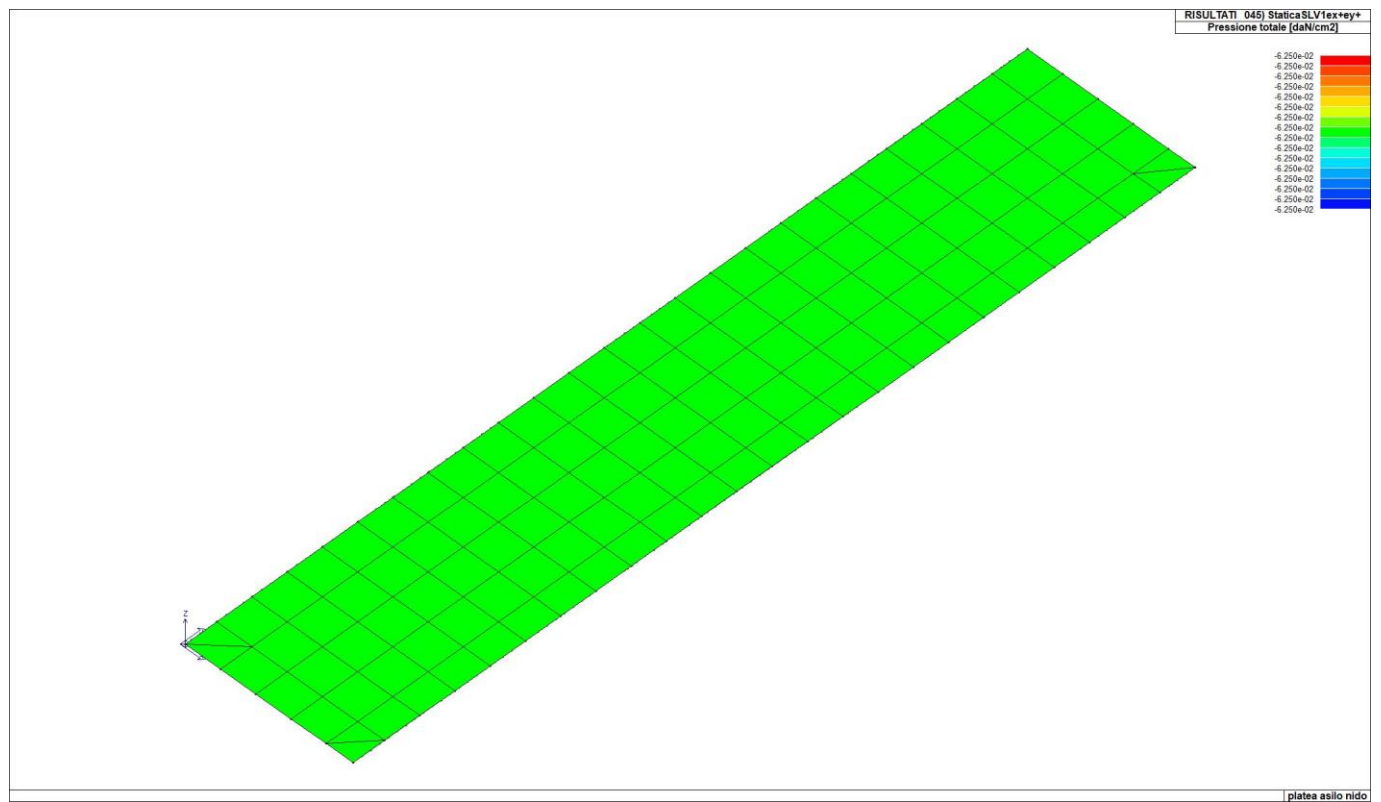
46_RIS_PRESSIONI_010_SLU10



46_RIS_PRESSIONI_011_SLU11



46_RIS_PRESSIONI_038_SLUorizzontale2

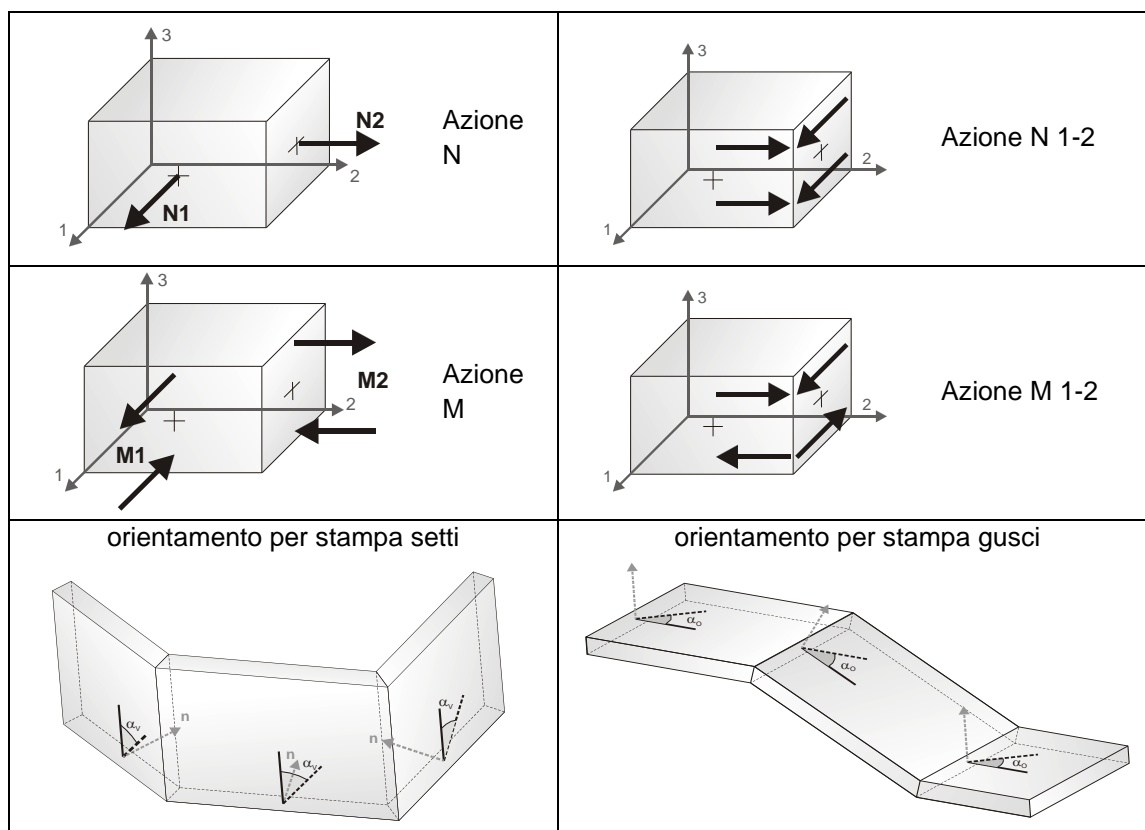


RISULTATI ELEMENTI TIPO SHELL

LEGENDA RISULTATI ELEMENTI TIPO SHELL

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

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



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

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

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

In questo caso gli elementi vengono raggruppati in gruppi (M_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi.

I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di α_o attorno all'asse Z per i gusci e ruotata di α_v attorno alla normale (che per definizione è orizzontale) al piano del setto.

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

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

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

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

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

M_G	Cmb	Nodo	N max daN/cm	N min daN/cm	N 1 daN/cm	N 2 daN/cm	N 1-2 daN/cm	M max daN	M min daN	M 1 daN	M 2 daN	M 1-2 daN
1	10	1						1.89e-04	-7.61e-05	1.71e-04	-5.83e-05	-6.63e-05
1	10	2						6.74e-04	3.83e-04	5.50e-04	5.07e-04	-1.44e-04
1	10	3						9.79e-05	-7.76e-05	-5.46e-05	7.49e-05	-5.92e-05
1	10	4						1.99e-04	-1.01e-04	6.96e-05	2.85e-05	-1.48e-04
1	10	5						1.50e-04	-2.18e-04	1.13e-04	-1.81e-04	-1.11e-04
1	10	6						5.21e-05	-4.23e-05	5.05e-05	-4.06e-05	-1.25e-05
1	10	7						4.38e-05	-2.43e-04	9.64e-06	-2.09e-04	-9.28e-05
1	10	8						2.41e-05	-2.32e-04	1.15e-05	-2.20e-04	-5.54e-05
1	10	9						6.50e-06	-1.93e-04	-1.45e-05	-1.71e-04	-6.12e-05
1	10	10						1.08e-05	-2.03e-04	3.57e-06	-1.95e-04	-3.87e-05
1	10	11						-2.54e-06	-1.23e-04	-1.41e-05	-1.11e-04	-3.55e-05
1	10	12						3.75e-06	-1.32e-04		-1.29e-04	-2.17e-05
1	10	13						-2.57e-06	-6.52e-05	-8.82e-06	-5.90e-05	-1.88e-05
1	10	14							-7.13e-05		-6.97e-05	-1.09e-05
1	10	15							-2.81e-05	-4.38e-06	-2.45e-05	-9.30e-06
1	10	16							-3.11e-05		-3.02e-05	-5.18e-06
1	10	17						1.00e-06	-8.74e-06	-1.77e-06	-5.96e-06	-4.40e-06
1	10	18							-9.56e-06		-8.83e-06	-2.54e-06
1	10	19						2.96e-06	-1.76e-06		1.76e-06	-2.05e-06
1	10	20						1.46e-06	-1.43e-06			-1.39e-06
1	10	21						3.83e-06			3.58e-06	
1	10	22						3.16e-06			2.93e-06	
1	10	23						3.01e-06			2.92e-06	
1	10	24						2.72e-06			2.59e-06	
1	10	25						1.72e-06			1.67e-06	
1	10	26						1.59e-06			1.49e-06	
1	10	27										
1	10	28										
1	10	29										
1	10	30										
1	10	31										
1	10	32										
1	10	33										
1	10	34										
1	10	35										
1	10	36										
1	10	37										
1	10	38										
1	10	39										
1	10	40										
1	10	41										
1	10	42										
1	10	43							-1.62e-06		-1.58e-06	
1	10	44							-1.42e-06		-1.42e-06	
1	10	45							-2.65e-06		-2.64e-06	
1	10	46							-2.12e-06		-2.07e-06	
1	10	47							-2.59e-06		-2.11e-06	-1.17e-06
1	10	48							-1.87e-06		-1.75e-06	

1	10	49		-1.85e-06		-1.34e-06
1	10	50				
1	10	51				
1	10	52	6.18e-05	1.36e-05	4.88e-05	-2.50e-05
1	10	53	1.31e-04	-1.77e-04	-1.20e-04	7.34e-05
1	10	54	1.76e-04	-2.24e-04	3.44e-06	-5.14e-05
1	10	55	5.54e-05	-2.19e-04	-1.46e-05	-1.49e-04
1	10	56	1.74e-05	-1.63e-04	-1.65e-05	-1.29e-04
1	10	57	6.27e-06	-1.00e-04	-1.07e-05	-8.31e-05
1	10	58	4.29e-06	-5.12e-05	-4.64e-06	-4.23e-05
1	10	59	4.44e-06	-2.05e-05		-1.53e-05
1	10	60	4.78e-06	-5.10e-06		-1.20e-06
1	10	61	5.29e-06		1.21e-06	4.10e-06
1	10	62	4.92e-06			4.68e-06
1	10	63	3.48e-06			3.42e-06
1	10	64	1.91e-06			1.90e-06
1	10	65				
1	10	66				
1	10	67				
1	10	68				
1	10	69				
1	10	70				
1	10	71		-1.17e-06	-1.16e-06	
1	10	72		-2.42e-06	-1.37e-06	-1.45e-06
1	10	73		-4.35e-06		-4.22e-06
1	10	74	3.07e-06	-4.44e-06	2.56e-06	-3.92e-06
1	10	75	3.30e-06	-3.69e-06		-3.48e-06
1	10	76	2.32e-05	-1.69e-04	-1.57e-04	1.17e-05
1	10	77	3.48e-05	-1.78e-04	-1.18e-04	-2.51e-05
1	10	78	5.81e-05	-2.01e-04	-8.23e-05	-6.02e-05
1	10	79	4.53e-05	-1.71e-04	-3.37e-05	-9.15e-05
1	10	80	3.02e-05	-1.22e-04	-9.65e-06	-8.23e-05
1	10	81	2.19e-05	-7.37e-05		-5.26e-05
1	10	82	1.68e-05	-3.62e-05	4.78e-06	-2.41e-05
1	10	83	1.33e-05	-1.29e-05	5.47e-06	-5.11e-06
1	10	84	1.06e-05	-1.77e-06	4.63e-06	4.23e-06
1	10	85	8.62e-06	1.54e-06	3.29e-06	6.87e-06
1	10	86	6.50e-06	1.58e-06	2.03e-06	6.04e-06
1	10	87	4.18e-06		1.08e-06	4.06e-06
1	10	88	2.20e-06			2.17e-06
1	10	89				
1	10	90				
1	10	91				
1	10	92				
1	10	93				
1	10	94				
1	10	95		-1.41e-06	-1.07e-06	
1	10	96		-2.32e-06	-2.10e-06	
1	10	97		-4.30e-06	-4.30e-06	
1	10	98		-1.46e-05	-8.27e-06	-5.97e-06
1	10	99	1.84e-05	-1.11e-05	1.84e-05	-1.10e-05
1	10	100	9.76e-06	-1.71e-05	-6.66e-06	-1.31e-05
1	10	101	1.40e-04	-1.10e-04	3.65e-05	-5.63e-06
1	10	102	9.03e-06	-1.95e-04	-1.13e-04	-7.25e-05
1	10	103	3.74e-05	-1.21e-04	-4.46e-05	-3.91e-05
1	10	104	4.74e-05	-1.17e-04	-1.16e-05	-5.85e-05
1	10	105	4.47e-05	-8.95e-05	3.86e-06	-4.87e-05
1	10	106	3.65e-05	-5.54e-05	8.69e-06	-2.76e-05
1	10	107	2.82e-05	-2.74e-05	8.58e-06	-7.77e-06
1	10	108	2.15e-05	-9.91e-06	6.76e-06	4.78e-06
1	10	109	1.63e-05	-1.72e-06	4.69e-06	9.91e-06
1	10	110	1.21e-05		2.95e-06	9.97e-06
1	10	111	8.30e-06	1.02e-06	1.68e-06	7.65e-06
1	10	112	5.01e-06			4.83e-06
1	10	113	2.54e-06			2.50e-06
1	10	114				
1	10	115				
1	10	116				
1	10	117				
1	10	118				
1	10	119		-1.24e-06		
1	10	120		-1.93e-06		-1.26e-06
1	10	121	1.28e-06	-3.04e-06	-1.50e-06	-2.07e-06
1	10	122	3.67e-06	-5.13e-06	-3.64e-06	2.18e-06
1	10	123	1.97e-05	-1.30e-05	-1.17e-05	1.84e-05
1	10	124	2.53e-05	-8.15e-05	-3.57e-05	-2.05e-05
1	10	125	1.68e-04	-8.48e-06	1.47e-04	1.23e-05

1	10	126	1.42e-04	-9.30e-05	-8.83e-06	5.78e-05	-1.13e-04
1	10	127	1.15e-04	-8.04e-05	1.80e-05	1.71e-05	-9.79e-05
1	10	128	2.09e-05	-8.62e-05	2.55e-06	-6.78e-05	-4.03e-05
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1	10	130	2.93e-05	-6.65e-05	-1.02e-06	-3.62e-05	-4.46e-05
1	10	131	2.47e-05	-4.19e-05	-1.11e-06	-1.61e-05	-3.25e-05
1	10	132	2.12e-05	-2.14e-05			-2.12e-05
1	10	133	1.88e-05	-8.98e-06		1.05e-05	-1.27e-05
1	10	134	1.63e-05	-3.29e-06		1.34e-05	-6.97e-06
1	10	135	1.29e-05	-1.08e-06		1.20e-05	-3.45e-06
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1	10	137	5.38e-06			5.33e-06	
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1	10	146	1.40e-06	-2.54e-06		-1.02e-06	-1.03e-06
1	10	147	3.27e-06	-5.03e-06		-1.14e-06	-1.88e-06
1	10	148	9.09e-06	-2.22e-05		-1.71e-06	-4.07e-06
1	10	149	1.33e-04	-1.06e-05	1.87e-06	-1.25e-05	-1.45e-05
1	10	150	1.08e-04	-1.31e-04	-8.56e-06	1.20e-04	4.03e-05
1	11	1	1.89e-04	-7.61e-05	1.71e-04	-1.44e-05	1.19e-04
1	11	2	6.74e-04	3.83e-04	5.50e-04	-5.83e-05	-6.63e-05
1	11	3	9.79e-05	-7.76e-05	-5.46e-05	5.07e-04	-1.44e-04
1	11	4	1.99e-04	-1.01e-04	6.96e-05	7.49e-05	-5.92e-05
1	11	5	1.50e-04	-2.18e-04	1.13e-04	2.85e-05	-1.48e-04
1	11	6	5.21e-05	-4.23e-05	5.05e-05	-1.81e-04	-1.11e-04
1	11	7	4.38e-05	-2.43e-04	9.64e-06	-4.06e-05	-1.25e-05
1	11	8	2.41e-05	-2.32e-04	1.15e-05	-2.09e-04	-9.28e-05
1	11	9	6.50e-06	-1.93e-04	-1.45e-05	-2.20e-04	-5.54e-05
1	11	10	1.08e-05	-2.03e-04	3.57e-06	-1.71e-04	-6.12e-05
1	11	11	-2.54e-06	-1.23e-04	-1.41e-05	-1.95e-04	-3.87e-05
1	11	12	3.75e-06	-1.32e-04		-1.11e-04	-3.55e-05
1	11	13	-2.57e-06	-6.52e-05	-8.82e-06	-1.29e-04	-2.17e-05
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1	11	15		-2.81e-05	-4.38e-06	-6.97e-05	-1.09e-05
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1	11	18		-9.56e-06		-5.96e-06	-4.40e-06
1	11	19	2.96e-06	-1.76e-06		-8.83e-06	-2.54e-06
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1	11	21	3.83e-06				-1.39e-06
1	11	22	3.16e-06			3.58e-06	
1	11	23	3.01e-06			2.93e-06	
1	11	24	2.72e-06			2.92e-06	
1	11	25	1.72e-06			2.59e-06	
1	11	26	1.59e-06			1.67e-06	
1	11	27				1.49e-06	
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1	11	29					
1	11	30					
1	11	31					
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1	11	34					
1	11	35					
1	11	36					
1	11	37					
1	11	38					
1	11	39					
1	11	40					
1	11	41					
1	11	42					
1	11	43			-1.62e-06		-1.58e-06
1	11	44			-1.42e-06		-1.42e-06
1	11	45			-2.65e-06		-2.64e-06
1	11	46			-2.12e-06		-2.07e-06
1	11	47			-2.59e-06		-2.11e-06
1	11	48			-1.87e-06		-1.75e-06
1	11	49			-1.85e-06		-1.34e-06
1	11	50					
1	11	51	6.18e-05		1.36e-05	4.88e-05	-2.50e-05
1	11	52	1.31e-04	-1.77e-04	-1.20e-04	7.34e-05	-1.20e-04

1	11	53	1.76e-04	-2.24e-04	3.44e-06	-5.14e-05	-1.98e-04
1	11	54	5.54e-05	-2.19e-04	-1.46e-05	-1.49e-04	-1.20e-04
1	11	55	1.74e-05	-1.63e-04	-1.65e-05	-1.29e-04	-7.04e-05
1	11	56	6.27e-06	-1.00e-04	-1.07e-05	-8.31e-05	-3.89e-05
1	11	57	4.29e-06	-5.12e-05	-4.64e-06	-4.23e-05	-2.04e-05
1	11	58	4.44e-06	-2.05e-05		-1.53e-05	-1.02e-05
1	11	59	4.78e-06	-5.10e-06		-1.20e-06	-4.83e-06
1	11	60	5.29e-06		1.21e-06	4.10e-06	-2.20e-06
1	11	61	4.92e-06			4.68e-06	
1	11	62	3.48e-06			3.42e-06	
1	11	63	1.91e-06			1.90e-06	
1	11	64					
1	11	65					
1	11	66					
1	11	67					
1	11	68					
1	11	69					
1	11	70					
1	11	71		-1.17e-06	-1.16e-06		
1	11	72		-2.42e-06	-1.37e-06	-1.45e-06	1.01e-06
1	11	73		-4.35e-06		-4.22e-06	
1	11	74	3.07e-06	-4.44e-06	2.56e-06	-3.92e-06	-1.90e-06
1	11	75	3.30e-06	-3.69e-06			-3.48e-06
1	11	76	2.32e-05	-1.69e-04	-1.57e-04	1.17e-05	-4.55e-05
1	11	77	3.48e-05	-1.78e-04	-1.18e-04	-2.51e-05	-9.56e-05
1	11	78	5.81e-05	-2.01e-04	-8.23e-05	-6.02e-05	-1.29e-04
1	11	79	4.53e-05	-1.71e-04	-3.37e-05	-9.15e-05	-1.04e-04
1	11	80	3.02e-05	-1.22e-04	-9.65e-06	-8.23e-05	-6.70e-05
1	11	81	2.19e-05	-7.37e-05		-5.26e-05	-3.96e-05
1	11	82	1.68e-05	-3.62e-05	4.78e-06	-2.41e-05	-2.22e-05
1	11	83	1.33e-05	-1.29e-05	5.47e-06	-5.11e-06	-1.20e-05
1	11	84	1.06e-05	-1.77e-06	4.63e-06	4.23e-06	-6.19e-06
1	11	85	8.62e-06	1.54e-06	3.29e-06	6.87e-06	-3.06e-06
1	11	86	6.50e-06	1.58e-06	2.03e-06	6.04e-06	-1.42e-06
1	11	87	4.18e-06		1.08e-06	4.06e-06	
1	11	88	2.20e-06			2.17e-06	
1	11	89					
1	11	90					
1	11	91					
1	11	92					
1	11	93					
1	11	94					
1	11	95		-1.41e-06	-1.07e-06		
1	11	96		-2.32e-06	-2.10e-06		
1	11	97		-4.30e-06	-4.30e-06		
1	11	98		-1.46e-05	-8.27e-06	-5.97e-06	7.39e-06
1	11	99	1.84e-05	-1.11e-05	1.84e-05	-1.10e-05	-1.26e-06
1	11	100	9.76e-06	-1.71e-05	-6.66e-06		-1.31e-05
1	11	101	1.40e-04	-1.10e-04	3.65e-05	-5.63e-06	-1.23e-04
1	11	102	9.03e-06	-1.95e-04	-1.13e-04	-7.25e-05	-9.99e-05
1	11	103	3.74e-05	-1.21e-04	-4.46e-05	-3.91e-05	-7.92e-05
1	11	104	4.74e-05	-1.17e-04	-1.16e-05	-5.85e-05	-7.91e-05
1	11	105	4.47e-05	-8.95e-05	3.86e-06	-4.87e-05	-6.17e-05
1	11	106	3.65e-05	-5.54e-05	8.69e-06	-2.76e-05	-4.22e-05
1	11	107	2.82e-05	-2.74e-05	8.58e-06	-7.77e-06	-2.66e-05
1	11	108	2.15e-05	-9.91e-06	6.76e-06	4.78e-06	-1.56e-05
1	11	109	1.63e-05	-1.72e-06	4.69e-06	9.91e-06	-8.64e-06
1	11	110	1.21e-05		2.95e-06	9.97e-06	-4.43e-06
1	11	111	8.30e-06	1.02e-06	1.68e-06	7.65e-06	-2.08e-06
1	11	112	5.01e-06			4.83e-06	
1	11	113	2.54e-06			2.50e-06	
1	11	114					
1	11	115					
1	11	116					
1	11	117					
1	11	118					
1	11	119		-1.24e-06			
1	11	120		-1.93e-06			-1.26e-06
1	11	121	1.28e-06	-3.04e-06	-1.50e-06		-2.07e-06
1	11	122	3.67e-06	-5.13e-06	-3.64e-06	2.18e-06	-3.30e-06
1	11	123	1.97e-05	-1.30e-05	-1.17e-05	1.84e-05	-6.58e-06
1	11	124	2.53e-05	-8.15e-05	-3.57e-05	-2.05e-05	5.28e-05
1	11	125	1.68e-04	-8.48e-06	1.47e-04	1.23e-05	5.69e-05
1	11	126	1.42e-04	-9.30e-05	-8.83e-06	5.78e-05	-1.13e-04
1	11	127	1.15e-04	-8.04e-05	1.80e-05	1.71e-05	-9.79e-05
1	11	128	2.09e-05	-8.62e-05	2.55e-06	-6.78e-05	-4.03e-05
1	11	129	3.15e-05	-8.45e-05		-5.25e-05	-5.19e-05

1	11	130	2.93e-05	-6.65e-05	-1.02e-06	-3.62e-05	-4.46e-05
1	11	131	2.47e-05	-4.19e-05	-1.11e-06	-1.61e-05	-3.25e-05
1	11	132	2.12e-05	-2.14e-05			-2.12e-05
1	11	133	1.88e-05	-8.98e-06		1.05e-05	-1.27e-05
1	11	134	1.63e-05	-3.29e-06		1.34e-05	-6.97e-06
1	11	135	1.29e-05	-1.08e-06		1.20e-05	-3.45e-06
1	11	136	8.95e-06			8.70e-06	-1.50e-06
1	11	137	5.38e-06			5.33e-06	
1	11	138	2.71e-06			2.70e-06	
1	11	139	1.01e-06			1.01e-06	
1	11	140					
1	11	141					
1	11	142					
1	11	143					
1	11	144			-1.12e-06		
1	11	145			-1.66e-06		
1	11	146	1.40e-06	-2.54e-06		-1.02e-06	-1.03e-06
1	11	147	3.27e-06	-5.03e-06		-1.14e-06	-1.88e-06
1	11	148	9.09e-06	-2.22e-05		-1.71e-06	-4.07e-06
1	11	149	1.33e-04	-1.06e-05	1.87e-06	-1.25e-05	-1.45e-05
1	11	150	1.08e-04	-1.31e-04	-8.56e-06	1.20e-04	4.03e-05
1	45	1	1.26e-04	-5.08e-05	1.14e-04	-1.44e-05	1.19e-04
1	45	2	4.49e-04	2.55e-04	3.67e-04	-3.89e-05	-4.42e-05
1	45	3	6.52e-05	-5.17e-05	-3.64e-05	3.38e-04	-9.61e-05
1	45	4	1.32e-04	-6.70e-05	4.64e-05	4.99e-05	-3.94e-05
1	45	5	9.99e-05	-1.45e-04	7.51e-05	1.90e-05	-9.88e-05
1	45	6	3.48e-05	-2.82e-05	3.36e-05	-1.21e-04	-7.38e-05
1	45	7	2.92e-05	-1.62e-04	6.43e-06	-2.71e-05	-8.30e-06
1	45	8	1.61e-05	-1.55e-04	7.69e-06	-1.39e-04	-6.19e-05
1	45	9	4.34e-06	-1.28e-04	-9.69e-06	-1.46e-04	-3.69e-05
1	45	10	7.23e-06	-1.35e-04	2.38e-06	-1.14e-04	-4.08e-05
1	45	11	-1.69e-06	-8.18e-05	-9.41e-06	-1.30e-04	-2.58e-05
1	45	12	2.50e-06	-8.83e-05		-7.41e-05	-2.36e-05
1	45	13	-1.71e-06	-4.35e-05	-5.88e-06	-8.59e-05	-1.45e-05
1	45	14		-4.76e-05		-3.93e-05	-1.25e-05
1	45	15		-1.87e-05	-2.92e-06	-4.64e-05	-7.25e-06
1	45	16		-2.08e-05		-1.63e-05	-6.20e-06
1	45	17		-5.82e-06	-1.18e-06	-2.02e-05	-3.46e-06
1	45	18		-6.37e-06		-3.97e-06	-2.93e-06
1	45	19	1.97e-06	-1.17e-06		-5.89e-06	-1.69e-06
1	45	20				1.17e-06	-1.37e-06
1	45	21	2.55e-06				
1	45	22	2.11e-06			2.39e-06	
1	45	23	2.00e-06			1.95e-06	
1	45	24	1.81e-06			1.95e-06	
1	45	25	1.14e-06			1.73e-06	
1	45	26	1.06e-06			1.11e-06	
1	45	27					
1	45	28					
1	45	29					
1	45	30					
1	45	31					
1	45	32					
1	45	33					
1	45	34					
1	45	35					
1	45	36					
1	45	37					
1	45	38					
1	45	39					
1	45	40					
1	45	41					
1	45	42					
1	45	43			-1.08e-06		-1.06e-06
1	45	44					
1	45	45			-1.77e-06		-1.76e-06
1	45	46			-1.41e-06		-1.38e-06
1	45	47			-1.73e-06		-1.41e-06
1	45	48			-1.25e-06		-1.17e-06
1	45	49			-1.23e-06		
1	45	50					
1	45	51	4.12e-05		9.08e-06	3.26e-05	-1.66e-05
1	45	52	8.72e-05	-1.18e-04	-7.98e-05	4.89e-05	-7.99e-05
1	45	53	1.17e-04	-1.49e-04	2.29e-06	-3.42e-05	-1.32e-04
1	45	54	3.69e-05	-1.46e-04	-9.76e-06	-9.93e-05	-7.97e-05
1	45	55	1.16e-05	-1.08e-04	-1.10e-05	-8.59e-05	-4.69e-05
1	45	56	4.18e-06	-6.67e-05	-7.13e-06	-5.54e-05	-2.60e-05

1	45	57	2.86e-06	-3.41e-05	-3.09e-06	-2.82e-05	-1.36e-05
1	45	58	2.96e-06	-1.37e-05		-1.02e-05	-6.77e-06
1	45	59	3.19e-06	-3.40e-06			-3.22e-06
1	45	60	3.52e-06			2.73e-06	-1.47e-06
1	45	61	3.28e-06			3.12e-06	
1	45	62	2.32e-06			2.28e-06	
1	45	63	1.28e-06			1.26e-06	
1	45	64					
1	45	65					
1	45	66					
1	45	67					
1	45	68					
1	45	69					
1	45	70					
1	45	71					
1	45	72		-1.61e-06			
1	45	73		-2.90e-06		-2.81e-06	
1	45	74	2.05e-06	-2.96e-06	1.70e-06	-2.61e-06	-1.27e-06
1	45	75	2.20e-06	-2.46e-06			-2.32e-06
1	45	76	1.55e-05	-1.12e-04	-1.05e-04	7.83e-06	-3.04e-05
1	45	77	2.32e-05	-1.18e-04	-7.84e-05	-1.67e-05	-6.37e-05
1	45	78	3.87e-05	-1.34e-04	-5.49e-05	-4.01e-05	-8.59e-05
1	45	79	3.02e-05	-1.14e-04	-2.25e-05	-6.10e-05	-6.93e-05
1	45	80	2.02e-05	-8.14e-05	-6.43e-06	-5.49e-05	-4.47e-05
1	45	81	1.46e-05	-4.91e-05		-3.51e-05	-2.64e-05
1	45	82	1.12e-05	-2.41e-05	3.19e-06	-1.61e-05	-1.48e-05
1	45	83	8.84e-06	-8.61e-06	3.65e-06	-3.41e-06	-7.98e-06
1	45	84	7.08e-06	-1.18e-06	3.08e-06	2.82e-06	-4.13e-06
1	45	85	5.75e-06	1.03e-06	2.19e-06	4.58e-06	-2.04e-06
1	45	86	4.33e-06	1.05e-06	1.36e-06	4.03e-06	
1	45	87	2.78e-06			2.70e-06	
1	45	88	1.47e-06			1.45e-06	
1	45	89					
1	45	90					
1	45	91					
1	45	92					
1	45	93					
1	45	94					
1	45	95					
1	45	96		-1.55e-06	-1.40e-06		
1	45	97		-2.87e-06	-2.86e-06		
1	45	98		-9.73e-06	-5.51e-06	-3.98e-06	4.92e-06
1	45	99	1.23e-05	-7.38e-06	1.22e-05	-7.34e-06	
1	45	100	6.51e-06	-1.14e-05	-4.44e-06		-8.71e-06
1	45	101	9.36e-05	-7.31e-05	2.43e-05	-3.75e-06	-8.21e-05
1	45	102	6.02e-06	-1.30e-04	-7.56e-05	-4.83e-05	-6.66e-05
1	45	103	2.49e-05	-8.07e-05	-2.97e-05	-2.60e-05	-5.28e-05
1	45	104	3.16e-05	-7.83e-05	-7.74e-06	-3.90e-05	-5.27e-05
1	45	105	2.98e-05	-5.97e-05	2.57e-06	-3.25e-05	-4.12e-05
1	45	106	2.43e-05	-3.69e-05	5.80e-06	-1.84e-05	-2.81e-05
1	45	107	1.88e-05	-1.83e-05	5.72e-06	-5.18e-06	-1.77e-05
1	45	108	1.43e-05	-6.60e-06	4.51e-06	3.19e-06	-1.04e-05
1	45	109	1.09e-05	-1.15e-06	3.13e-06	6.60e-06	-5.76e-06
1	45	110	8.08e-06		1.97e-06	6.65e-06	-2.96e-06
1	45	111	5.53e-06		1.12e-06	5.10e-06	-1.39e-06
1	45	112	3.34e-06			3.22e-06	
1	45	113	1.70e-06			1.67e-06	
1	45	114					
1	45	115					
1	45	116					
1	45	117					
1	45	118					
1	45	119					
1	45	120		-1.29e-06			
1	45	121		-2.02e-06	-1.00e-06		-1.38e-06
1	45	122	2.44e-06	-3.42e-06	-2.43e-06	1.45e-06	-2.20e-06
1	45	123	1.32e-05	-8.70e-06	-7.78e-06	1.22e-05	-4.39e-06
1	45	124	1.68e-05	-5.43e-05	-2.38e-05	-1.37e-05	3.52e-05
1	45	125	1.12e-04	-5.65e-06	9.82e-05	8.17e-06	3.79e-05
1	45	126	9.46e-05	-6.20e-05	-5.89e-06	3.85e-05	-7.51e-05
1	45	127	7.70e-05	-5.36e-05	1.20e-05	1.14e-05	-6.53e-05
1	45	128	1.39e-05	-5.74e-05	1.70e-06	-4.52e-05	-2.69e-05
1	45	129	2.10e-05	-5.64e-05		-3.50e-05	-3.46e-05
1	45	130	1.95e-05	-4.44e-05		-2.42e-05	-2.97e-05
1	45	131	1.65e-05	-2.80e-05		-1.07e-05	-2.16e-05
1	45	132	1.41e-05	-1.42e-05			-1.42e-05
1	45	133	1.25e-05	-5.98e-06		6.97e-06	-8.48e-06

1	45	134	1.09e-05	-2.19e-06	8.93e-06	-4.64e-06
1	45	135	8.59e-06		7.98e-06	-2.30e-06
1	45	136	5.96e-06		5.80e-06	
1	45	137	3.59e-06		3.55e-06	
1	45	138	1.81e-06		1.80e-06	
1	45	139				
1	45	140				
1	45	141				
1	45	142				
1	45	143				
1	45	144				
1	45	145		-1.10e-06		
1	45	146		-1.69e-06		-1.26e-06
1	45	147	2.18e-06	-3.36e-06	-1.14e-06	-2.71e-06
1	45	148	6.06e-06	-1.48e-05	-8.31e-06	-9.67e-06
1	45	149	8.85e-05	-7.04e-06	1.24e-06	8.02e-05
1	45	150	7.18e-05	-8.71e-05	-5.71e-06	-9.62e-06

M_G	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	0.0	0.0	0.0	0.0	0.0	6.74e-04	-2.43e-04	-1.57e-04	-2.20e-04	-1.98e-04
			0.0	0.0	0.0			5.50e-04	5.07e-04	1.19e-04

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm ²	daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	10	4	2.71e-06	0.0	0.0	0.0	0.0	0.0	2.11e-04	-1.09e-04	-3.00e-05	1.31e-04	-1.38e-04
		1	2.70e-06	0.0	0.0	0.0	0.0	0.0	2.32e-04	-8.06e-05	7.60e-05	7.53e-05	-1.56e-04
		2	5.49e-06	0.0	0.0	0.0	0.0	0.0	6.52e-04	2.35e-04	2.89e-04	5.99e-04	-1.39e-04
1	11	4	2.71e-06	0.0	0.0	0.0	0.0	0.0	2.11e-04	-1.09e-04	-3.00e-05	1.31e-04	-1.38e-04
		1	2.70e-06	0.0	0.0	0.0	0.0	0.0	2.32e-04	-8.06e-05	7.60e-05	7.53e-05	-1.56e-04
		2	5.49e-06	0.0	0.0	0.0	0.0	0.0	6.52e-04	2.35e-04	2.89e-04	5.99e-04	-1.39e-04
1	45	4	1.81e-06	0.0	0.0	0.0	0.0	0.0	1.41e-04	-7.30e-05	-2.00e-05	8.76e-05	-9.23e-05
		1	1.80e-06	0.0	0.0	0.0	0.0	0.0	1.55e-04	-5.37e-05	5.07e-05	5.02e-05	-1.04e-04
		2	3.66e-06	0.0	0.0	0.0	0.0	0.0	4.35e-04	1.57e-04	1.92e-04	3.99e-04	-9.27e-05
2	10	3	1.88e-06	0.0	0.0	0.0	0.0	0.0	1.45e-04	-7.81e-05	1.15e-04	-4.83e-05	-7.60e-05
		4	2.44e-06	0.0	0.0	0.0	0.0	0.0	1.91e-04	-9.66e-05	1.89e-04	-9.45e-05	-2.43e-05
		2	5.40e-06	0.0	0.0	0.0	0.0	0.0	6.40e-04	2.25e-04	6.40e-04	2.25e-04	1.07e-05
2	11	3	1.88e-06	0.0	0.0	0.0	0.0	0.0	1.45e-04	-7.81e-05	1.15e-04	-4.83e-05	-7.60e-05
		4	2.44e-06	0.0	0.0	0.0	0.0	0.0	1.91e-04	-9.66e-05	1.89e-04	-9.45e-05	-2.43e-05
		2	5.40e-06	0.0	0.0	0.0	0.0	0.0	6.40e-04	2.25e-04	6.40e-04	2.25e-04	1.07e-05
2	45	3	1.25e-06	0.0	0.0	0.0	0.0	0.0	9.65e-05	-5.21e-05	7.66e-05	-3.22e-05	-5.06e-05
		4	1.62e-06	0.0	0.0	0.0	0.0	0.0	1.28e-04	-6.44e-05	1.26e-04	-6.30e-05	-1.62e-05
		2	3.60e-06	0.0	0.0	0.0	0.0	0.0	4.27e-04	1.50e-04	4.27e-04	1.50e-04	7.17e-06
3	10	3	1.16e-06	0.0	0.0	0.0	0.0	0.0	5.66e-05	-8.27e-05	-7.66e-05	5.05e-05	-2.85e-05
		2	5.48e-06	0.0	0.0	0.0	0.0	0.0	6.33e-04	4.75e-04	5.41e-04	5.66e-04	-7.83e-05
		5	3.41e-06	0.0	0.0	0.0	0.0	0.0	1.33e-04	-2.70e-04	1.23e-04	-2.60e-04	-6.20e-05
		6	0.0	0.0	0.0	0.0	0.0	0.0	6.27e-05	4.03e-05	6.15e-05	4.16e-05	-5.16e-06
3	11	3	1.16e-06	0.0	0.0	0.0	0.0	0.0	5.66e-05	-8.27e-05	-7.66e-05	5.05e-05	-2.85e-05
		2	5.48e-06	0.0	0.0	0.0	0.0	0.0	6.33e-04	4.75e-04	5.41e-04	5.66e-04	-7.83e-05
		5	3.41e-06	0.0	0.0	0.0	0.0	0.0	1.33e-04	-2.70e-04	1.23e-04	-2.60e-04	-6.20e-05
		6	0.0	0.0	0.0	0.0	0.0	0.0	6.27e-05	4.03e-05	6.15e-05	4.16e-05	-5.16e-06
3	45	3	0.0	0.0	0.0	0.0	0.0	0.0	3.77e-05	-5.51e-05	-5.10e-05	3.37e-05	-1.90e-05
		2	3.65e-06	0.0	0.0	0.0	0.0	0.0	4.22e-04	3.16e-04	3.61e-04	3.78e-04	-5.22e-05
		5	2.27e-06	0.0	0.0	0.0	0.0	0.0	8.86e-05	-1.80e-04	8.21e-05	-1.73e-04	-4.14e-05
		6	0.0	0.0	0.0	0.0	0.0	0.0	4.18e-05	2.69e-05	4.10e-05	2.77e-05	-3.44e-06
4	10	6	1.45e-06	0.0	0.0	0.0	0.0	0.0	4.18e-05	-1.25e-04	3.94e-05	-1.23e-04	-1.97e-05
		5	2.70e-06	0.0	0.0	0.0	0.0	0.0	1.76e-04	-1.48e-04	1.22e-04	-9.38e-05	-1.21e-04
		7	2.54e-06	0.0	0.0	0.0	0.0	0.0	4.00e-05	-2.43e-04	1.26e-05	-2.15e-04	-8.36e-05
		8	2.35e-06	0.0	0.0	0.0	0.0	0.0	2.36e-05	-2.33e-04	5.44e-06	-2.14e-04	-6.58e-05
4	11	6	1.45e-06	0.0	0.0	0.0	0.0	0.0	4.18e-05	-1.25e-04	3.94e-05	-1.23e-04	-1.97e-05
		5	2.70e-06	0.0	0.0	0.0	0.0	0.0	1.76e-04	-1.48e-04	1.22e-04	-9.38e-05	-1.21e-04
		7	2.54e-06	0.0	0.0	0.0	0.0	0.0	4.00e-05	-2.43e-04	1.26e-05	-2.15e-04	-8.36e-05
		8	2.35e-06	0.0	0.0	0.0	0.0	0.0	2.36e-05	-2.33e-04	5.44e-06	-2.14e-04	-6.58e-05
4	45	6	0.0	0.0	0.0	0.0	0.0	0.0	2.79e-05	-8.35e-05	2.63e-05	-8.19e-05	-1.32e-05
		5	1.80e-06	0.0	0.0	0.0	0.0	0.0	1.18e-04	-9.89e-05	8.13e-05	-6.26e-05	-8.09e-05
		7	1.70e-06	0.0	0.0	0.0	0.0	0.0	2.67e-05	-1.62e-04	8.41e-06	-1.44e-04	-5.57e-05
		8	1.57e-06	0.0	0.0	0.0	0.0	0.0	1.57e-05	-1.55e-04	3.63e-06	-1.43e-04	-4.38e-05
5	10	8	2.37e-06	0.0	0.0	0.0	0.0	0.0	2.57e-05	-2.33e-04	1.76e-05	-2.25e-04	-4.50e-05
		7	2.55e-06	0.0	0.0	0.0	0.0	0.0	4.85e-05	-2.38e-04	1.09e-05	-2.01e-04	-9.67e-05
		9	1.89e-06	0.0	0.0	0.0	0.0	0.0	7.58e-06	-1.93e-04	-1.33e-05	-1.72e-04	-6.12e-05
		10	2.00e-06	0.0	0.0	0.0	0.0	0.0	9.66e-06	-2.03e-04	0.0	-1.94e-04	-4.21e-05
5	11	8	2.37e-06	0.0	0.0	0.0	0.0	0.0	2.57e-05	-2.33e-04	1.76e-05	-2.25e-04	-4.50e-05
		7	2.55e-06	0.0	0.0	0.0	0.0	0.0	4.85e-05	-2.38e-04	1.09e-05	-2.01e-04	-9.67e-05
		9	1.89e-06	0.0	0.0	0.0	0.0	0.0	7.58e-06	-1.93e-04	-1.33e-05	-1.72e-04	-6.12e-05
		10	2.00e-06	0.0	0.0	0.0	0.0	0.0	9.66e-06	-2.03e-04	0.0	-1.94e-04	-4.21e-05
5	45	8	1.58e-06	0.0	0.0	0.0	0.0	0.0	1.71e-05	-1.55e-04	1.18e-05	-1.50e-04	-3.00e-05
		7	1.70e-06	0.0	0.0	0.0	0.0	0.0	3.23e-05	-1.59e-04	7.27e-06	-1.34e-04	-6.45e-05

		9	1.26e-06	0.0	0.0	0.0	0.0	0.0	5.05e-06	-1.29e-04	-8.83e-06	-1.15e-04	-4.08e-05
		10	1.33e-06	0.0	0.0	0.0	0.0	0.0	6.44e-06	-1.35e-04	0.0	-1.30e-04	-2.81e-05
6	10	10	2.00e-06	0.0	0.0	0.0	0.0	0.0	1.22e-05	-2.02e-04	6.17e-06	-1.96e-04	-3.53e-05
		9	1.90e-06	0.0	0.0	0.0	0.0	0.0	8.38e-06	-1.94e-04	-1.42e-05	-1.71e-04	-6.36e-05
		11	1.18e-06	0.0	0.0	0.0	0.0	0.0	-1.23e-06	-1.24e-04	-1.34e-05	-1.11e-04	-3.66e-05
		12	1.28e-06	0.0	0.0	0.0	0.0	0.0	2.93e-06	-1.32e-04	0.0	-1.28e-04	-2.23e-05
6	11	10	2.00e-06	0.0	0.0	0.0	0.0	0.0	1.22e-05	-2.02e-04	6.17e-06	-1.96e-04	-3.53e-05
		9	1.90e-06	0.0	0.0	0.0	0.0	0.0	8.38e-06	-1.94e-04	-1.42e-05	-1.71e-04	-6.36e-05
		11	1.18e-06	0.0	0.0	0.0	0.0	0.0	-1.23e-06	-1.24e-04	-1.34e-05	-1.11e-04	-3.66e-05
		12	1.28e-06	0.0	0.0	0.0	0.0	0.0	2.93e-06	-1.32e-04	0.0	-1.28e-04	-2.23e-05
6	45	10	1.34e-06	0.0	0.0	0.0	0.0	0.0	8.10e-06	-1.35e-04	4.11e-06	-1.31e-04	-2.36e-05
		9	1.27e-06	0.0	0.0	0.0	0.0	0.0	5.59e-06	-1.29e-04	-9.45e-06	-1.14e-04	-4.24e-05
		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.24e-05	-8.92e-06	-7.43e-05	-2.44e-05
		12	0.0	0.0	0.0	0.0	0.0	0.0	1.95e-06	-8.78e-05	0.0	-8.53e-05	-1.49e-05
7	10	12	1.30e-06	0.0	0.0	0.0	0.0	0.0	4.59e-06	-1.33e-04	1.28e-06	-1.30e-04	-2.11e-05
		11	1.18e-06	0.0	0.0	0.0	0.0	0.0	-1.64e-06	-1.24e-04	-1.40e-05	-1.12e-04	-3.69e-05
		13	0.0	0.0	0.0	0.0	0.0	0.0	-1.73e-06	-6.58e-05	-8.48e-06	-5.91e-05	-1.97e-05
		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-7.07e-05	-1.26e-06	-6.90e-05	-1.07e-05
7	11	12	1.30e-06	0.0	0.0	0.0	0.0	0.0	4.59e-06	-1.33e-04	1.28e-06	-1.30e-04	-2.11e-05
		11	1.18e-06	0.0	0.0	0.0	0.0	0.0	-1.64e-06	-1.24e-04	-1.40e-05	-1.12e-04	-3.69e-05
		13	0.0	0.0	0.0	0.0	0.0	0.0	-1.73e-06	-6.58e-05	-8.48e-06	-5.91e-05	-1.97e-05
		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-7.07e-05	-1.26e-06	-6.90e-05	-1.07e-05
7	45	12	0.0	0.0	0.0	0.0	0.0	0.0	3.06e-06	-8.87e-05	0.0	-8.65e-05	-1.41e-05
		11	0.0	0.0	0.0	0.0	0.0	0.0	-1.09e-06	-8.26e-05	-9.34e-06	-7.44e-05	-2.46e-05
		13	0.0	0.0	0.0	0.0	0.0	0.0	-1.16e-06	-4.39e-05	-5.65e-06	-3.94e-05	-1.31e-05
		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.71e-05	0.0	-4.60e-05	-7.11e-06
8	10	14	0.0	0.0	0.0	0.0	0.0	0.0	1.18e-06	-7.20e-05	0.0	-7.03e-05	-1.11e-05
		13	0.0	0.0	0.0	0.0	0.0	0.0	-2.09e-06	-6.61e-05	-8.72e-06	-5.94e-05	-1.95e-05
		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.85e-05	-4.30e-06	-2.45e-05	-9.84e-06
		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.06e-05	0.0	-2.98e-05	-4.86e-06
8	11	14	0.0	0.0	0.0	0.0	0.0	0.0	1.18e-06	-7.20e-05	0.0	-7.03e-05	-1.11e-05
		13	0.0	0.0	0.0	0.0	0.0	0.0	-2.09e-06	-6.61e-05	-8.72e-06	-5.94e-05	-1.95e-05
		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.85e-05	-4.30e-06	-2.45e-05	-9.84e-06
		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.06e-05	0.0	-2.98e-05	-4.86e-06
8	45	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.80e-05	0.0	-4.69e-05	-7.39e-06
		13	0.0	0.0	0.0	0.0	0.0	0.0	-1.39e-06	-4.41e-05	-5.81e-06	-3.96e-05	-1.30e-05
		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.90e-05	-2.87e-06	-1.63e-05	-6.56e-06
		16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.04e-05	0.0	-1.99e-05	-3.24e-06
9	10	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.16e-05	0.0	-3.07e-05	-5.51e-06
		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.86e-05	-4.27e-06	-2.48e-05	-9.63e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	1.25e-06	-9.00e-06	-1.81e-06	-5.94e-06	-4.69e-06
		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.21e-06	0.0	-8.59e-06	-2.31e-06
9	11	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.16e-05	0.0	-3.07e-05	-5.51e-06
		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.86e-05	-4.27e-06	-2.48e-05	-9.63e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	1.25e-06	-9.00e-06	-1.81e-06	-5.94e-06	-4.69e-06
		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.21e-06	0.0	-8.59e-06	-2.31e-06
9	45	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.11e-05	0.0	-2.04e-05	-3.67e-06
		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.91e-05	-2.85e-06	-1.65e-05	-6.42e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.00e-06	-1.21e-06	-3.96e-06	-3.13e-06
		18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.14e-06	0.0	-5.73e-06	-1.54e-06
10	10	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.90e-06	0.0	-9.07e-06	-2.77e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	1.17e-06	-9.01e-06	-1.68e-06	-6.17e-06	-4.57e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	3.09e-06	-1.93e-06	0.0	1.79e-06	-2.20e-06
		20	0.0	0.0	0.0	0.0	0.0	0.0	1.47e-06	-1.22e-06	0.0	0.0	-1.29e-06
10	11	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.90e-06	0.0	-9.07e-06	-2.77e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	1.17e-06	-9.01e-06	-1.68e-06	-6.17e-06	-4.57e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	3.09e-06	-1.93e-06	0.0	1.79e-06	-2.20e-06
		20	0.0	0.0	0.0	0.0	0.0	0.0	1.47e-06	-1.22e-06	0.0	0.0	-1.29e-06
10	45	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.60e-06	0.0	-6.05e-06	-1.84e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.01e-06	-1.12e-06	-4.11e-06	-3.05e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	2.06e-06	-1.29e-06	0.0	1.19e-06	-1.46e-06
		20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	10	20	0.0	0.0	0.0	0.0	0.0	0.0	1.45e-06	-1.64e-06	0.0	0.0	-1.50e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	2.99e-06	-1.84e-06	0.0	1.65e-06	-2.17e-06
		21	0.0	0.0	0.0	0.0	0.0	0.0	3.87e-06	0.0	0.0	3.60e-06	-1.05e-06
		22	0.0	0.0	0.0	0.0	0.0	0.0	3.23e-06	0.0	0.0	3.00e-06	0.0
11	11	20	0.0	0.0	0.0	0.0	0.0	0.0	1.45e-06	-1.64e-06	0.0	0.0	-1.50e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	2.99e-06	-1.84e-06	0.0	1.65e-06	-2.17e-06
		21	0.0	0.0	0.0	0.0	0.0	0.0	3.87e-06	0.0	0.0	3.60e-06	-1.05e-06
		22	0.0	0.0	0.0	0.0	0.0	0.0	3.23e-06	0.0	0.0	3.00e-06	0.0
11	45	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.09e-06	0.0	0.0	-1.00e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	1.99e-06	-1.23e-06	0.0	1.10e-06	-1.44e-06
		21	0.0	0.0	0.0	0.0	0.0	0.0	2.58e-06	0.0	0.0	2.40e-06	0.0
		22	0.0	0.0	0.0	0.0	0.0	0.0	2.15e-06	0.0	0.0	2.00e-06	0.0
12	10	22	0.0	0.0	0.0	0.0	0.0	0.0	3.10e-06	0.0	0.0	2.86e-06	0.0
		21	0.0	0.0	0.0	0.0	0.0	0.0	3.82e-06	0.0	0.0	3.53e-06	-1.08e-06
		23	0.0	0.0	0.0	0.0	0.0	0.0	3.02e-06	0.0	0.0	2.93e-06	0.0

		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.70e-06	0.0	-2.09e-06	-1.35e-06
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.74e-06	0.0	0.0	-1.27e-06
		50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	11	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.84e-06	0.0	-1.73e-06	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.70e-06	0.0	-2.09e-06	-1.35e-06
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.74e-06	0.0	0.0	-1.27e-06
		50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	45	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.23e-06	0.0	-1.15e-06	0.0
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.80e-06	0.0	-1.40e-06	0.0
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.16e-06	0.0	0.0	0.0
		50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	10	1	1.97e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.54e-04	-7.95e-05	1.50e-04	-7.60e-05
		51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.08e-04	5.80e-05	1.02e-04	6.45e-05
		52	2.72e-06	0.0	0.0	0.0	0.0	0.0	0.0	9.35e-05	-2.25e-04	-2.07e-04	7.48e-05
		2	5.77e-06	0.0	0.0	0.0	0.0	0.0	0.0	6.75e-04	4.74e-04	6.34e-04	5.16e-04
26	11	1	1.97e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.54e-04	-7.95e-05	1.50e-04	-7.60e-05
		51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.08e-04	5.80e-05	1.02e-04	6.45e-05
		52	2.72e-06	0.0	0.0	0.0	0.0	0.0	0.0	9.35e-05	-2.25e-04	-2.07e-04	7.48e-05
		2	5.77e-06	0.0	0.0	0.0	0.0	0.0	0.0	6.75e-04	4.74e-04	6.34e-04	5.16e-04
26	45	1	1.31e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.02e-04	-5.30e-05	1.00e-04	-5.07e-05
		51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.21e-05	3.86e-05	6.78e-05	4.30e-05
		52	1.82e-06	0.0	0.0	0.0	0.0	0.0	0.0	6.23e-05	-1.50e-04	-1.38e-04	4.99e-05
		2	3.84e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.50e-04	3.16e-04	4.23e-04	3.44e-04
27	10	2	6.61e-06	0.0	0.0	0.0	0.0	0.0	0.0	7.87e-04	4.87e-04	6.64e-04	6.10e-04
		52	3.47e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.15e-04	-2.90e-04	-2.11e-04	3.67e-05
		53	3.77e-06	0.0	0.0	0.0	0.0	0.0	0.0	2.77e-04	-1.73e-04	8.00e-05	2.41e-05
		5	3.97e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.31e-04	-3.32e-04	7.20e-05	-2.74e-04
27	11	2	6.61e-06	0.0	0.0	0.0	0.0	0.0	0.0	7.87e-04	4.87e-04	6.64e-04	6.10e-04
		52	3.47e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.15e-04	-2.90e-04	-2.11e-04	3.67e-05
		53	3.77e-06	0.0	0.0	0.0	0.0	0.0	0.0	2.77e-04	-1.73e-04	8.00e-05	2.41e-05
		5	3.97e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.31e-04	-3.32e-04	7.20e-05	-2.74e-04
27	45	2	4.40e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.25e-04	3.24e-04	4.43e-04	4.07e-04
		52	2.31e-06	0.0	0.0	0.0	0.0	0.0	0.0	7.66e-05	-1.93e-04	-1.41e-04	2.45e-05
		53	2.51e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.84e-04	-1.15e-04	5.34e-05	1.61e-05
		5	2.64e-06	0.0	0.0	0.0	0.0	0.0	0.0	8.71e-05	-2.21e-04	4.80e-05	-1.82e-04
28	10	5	2.60e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.75e-04	-1.37e-04	1.34e-04	-9.63e-05
		53	3.41e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.54e-04	-2.52e-04	5.38e-06	-1.04e-04
		54	2.35e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.83e-05	-2.10e-04	-8.61e-06	-1.43e-04
		7	2.68e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.31e-05	-2.56e-04	2.39e-06	-2.15e-04
28	11	5	2.60e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.75e-04	-1.37e-04	1.34e-04	-9.63e-05
		53	3.41e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.54e-04	-2.52e-04	5.38e-06	-1.04e-04
		54	2.35e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.83e-05	-2.10e-04	-8.61e-06	-1.43e-04
		7	2.68e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.31e-05	-2.56e-04	2.39e-06	-2.15e-04
28	45	5	1.74e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.17e-04	-9.16e-05	8.93e-05	-6.42e-05
		53	2.27e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.03e-04	-1.68e-04	3.59e-06	-6.92e-05
		54	1.57e-06	0.0	0.0	0.0	0.0	0.0	0.0	3.89e-05	-1.40e-04	-5.74e-06	-9.56e-05
		7	1.79e-06	0.0	0.0	0.0	0.0	0.0	0.0	2.87e-05	-1.70e-04	1.59e-06	-1.43e-04
29	10	7	2.50e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.44e-05	-2.35e-04	1.26e-05	-2.03e-04
		54	2.48e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.98e-05	-2.23e-04	-1.09e-05	-1.52e-04
		55	1.65e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.74e-05	-1.63e-04	-1.56e-05	-1.30e-04
		9	1.86e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.81e-06	-1.92e-04	-1.64e-05	-1.70e-04
29	11	7	2.50e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.44e-05	-2.35e-04	1.26e-05	-2.03e-04
		54	2.48e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.98e-05	-2.23e-04	-1.09e-05	-1.52e-04
		55	1.65e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.74e-05	-1.63e-04	-1.56e-05	-1.30e-04
		9	1.86e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.81e-06	-1.92e-04	-1.64e-05	-1.70e-04
29	45	7	1.66e-06	0.0	0.0	0.0	0.0	0.0	0.0	2.96e-05	-1.57e-04	8.42e-06	-1.35e-04
		54	1.65e-06	0.0	0.0	0.0	0.0	0.0	0.0	3.99e-05	-1.49e-04	-7.29e-06	-1.02e-04
		55	1.10e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.16e-05	-1.08e-04	-1.04e-05	-8.65e-05
		9	1.24e-06	0.0	0.0	0.0	0.0	0.0	0.0	3.21e-06	-1.28e-04	-1.10e-05	-1.14e-04
30	10	9	1.86e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.29e-06	-1.92e-04	-1.43e-05	-1.72e-04
		55	1.66e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.92e-05	-1.63e-04	-1.49e-05	-1.29e-04
		56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.19e-06	-1.01e-04	-1.08e-05	-8.38e-05
		11	1.14e-06	0.0	0.0	0.0	0.0	0.0	0.0	-3.67e-06	-1.21e-04	-1.46e-05	-1.10e-04
30	11	9	1.86e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.29e-06	-1.92e-04	-1.43e-05	-1.72e-04
		55	1.66e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.92e-05	-1.63e-04	-1.49e-05	-1.29e-04
		56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.19e-06	-1.01e-04	-1.08e-05	-8.38e-05
		11	1.14e-06	0.0	0.0	0.0	0.0	0.0	0.0	-3.67e-06	-1.21e-04	-1.46e-05	-1.10e-04
30	45	9	1.24e-06	0.0	0.0	0.0	0.0	0.0	0.0	3.53e-06	-1.28e-04	-9.52e-06	-1.15e-04
		55	1.11e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.28e-05	-1.09e-04	-9.92e-06	-8.59e-05
		56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.12e-06	-6.72e-05	-7.21e-06	-5.58e-05
		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.44e-06	-8.04e-05	-9.74e-06	-7.32e-05
31	10	11	1.16e-06	0.0	0.0	0.0	0.0	0.0	0.0	-3.60e-06	-1.23e-04	-1.45e-05	-1.12e-04
		56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.95e-06	-1.00e-04	-1.01e-05	-8.30e-05
		57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.14e-06	-5.17e-05	-4.91e-06	-4.26e-05
		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.19e-06	-6.37e-05	-8.92e-06	-5.80e-05
31	11	11	1.16e-06	0.0	0.0	0.0	0.0	0.0	0.0	-3.60e-06	-1.23e-04	-1.45e-05	-1.12e-04
		56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.95e-06	-1.00e-04	-1.01e-05	-8.30e-05

		57	0.0	0.0	0.0	0.0	0.0	0.0	4.14e-06	-5.17e-05	-4.91e-06	-4.26e-05	-2.06e-05
		13	0.0	0.0	0.0	0.0	0.0	0.0	-3.19e-06	-6.37e-05	-8.92e-06	-5.80e-05	-1.77e-05
31	45	11	0.0	0.0	0.0	0.0	0.0	0.0	-2.40e-06	-8.17e-05	-9.65e-06	-7.45e-05	-2.29e-05
		56	0.0	0.0	0.0	0.0	0.0	0.0	4.63e-06	-6.67e-05	-6.75e-06	-5.53e-05	-2.61e-05
		57	0.0	0.0	0.0	0.0	0.0	0.0	2.76e-06	-3.44e-05	-3.27e-06	-2.84e-05	-1.37e-05
		13	0.0	0.0	0.0	0.0	0.0	0.0	-2.13e-06	-4.25e-05	-5.95e-06	-3.87e-05	-1.18e-05
32	10	13	0.0	0.0	0.0	0.0	0.0	0.0	-3.23e-06	-6.53e-05	-9.16e-06	-5.93e-05	-1.82e-05
		57	0.0	0.0	0.0	0.0	0.0	0.0	4.53e-06	-5.13e-05	-4.50e-06	-4.23e-05	-2.06e-05
		58	0.0	0.0	0.0	0.0	0.0	0.0	4.30e-06	-2.08e-05	-1.02e-06	-1.54e-05	-1.02e-05
		15	0.0	0.0	0.0	0.0	0.0	0.0	-1.08e-06	-2.72e-05	-4.36e-06	-2.39e-05	-8.66e-06
32	11	13	0.0	0.0	0.0	0.0	0.0	0.0	-3.23e-06	-6.53e-05	-9.16e-06	-5.93e-05	-1.82e-05
		57	0.0	0.0	0.0	0.0	0.0	0.0	4.53e-06	-5.13e-05	-4.50e-06	-4.23e-05	-2.06e-05
		58	0.0	0.0	0.0	0.0	0.0	0.0	4.30e-06	-2.08e-05	-1.02e-06	-1.54e-05	-1.02e-05
		15	0.0	0.0	0.0	0.0	0.0	0.0	-1.08e-06	-2.72e-05	-4.36e-06	-2.39e-05	-8.66e-06
32	45	13	0.0	0.0	0.0	0.0	0.0	0.0	-2.16e-06	-4.35e-05	-6.11e-06	-3.96e-05	-1.22e-05
		57	0.0	0.0	0.0	0.0	0.0	0.0	3.02e-06	-3.42e-05	-3.00e-06	-2.82e-05	-1.37e-05
		58	0.0	0.0	0.0	0.0	0.0	0.0	2.86e-06	-1.38e-05	0.0	-1.03e-05	-6.83e-06
		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.81e-05	-2.91e-06	-1.59e-05	-5.77e-06
33	10	15	0.0	0.0	0.0	0.0	0.0	0.0	-1.12e-06	-2.82e-05	-4.59e-06	-2.47e-05	-9.05e-06
		58	0.0	0.0	0.0	0.0	0.0	0.0	4.52e-06	-2.06e-05	0.0	-1.53e-05	-1.03e-05
		59	0.0	0.0	0.0	0.0	0.0	0.0	4.68e-06	-5.23e-06	0.0	-1.27e-06	-4.85e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.19e-06	-1.72e-06	-5.65e-06	-4.05e-06
33	11	15	0.0	0.0	0.0	0.0	0.0	0.0	-1.12e-06	-2.82e-05	-4.59e-06	-2.47e-05	-9.05e-06
		58	0.0	0.0	0.0	0.0	0.0	0.0	4.52e-06	-2.06e-05	0.0	-1.53e-05	-1.03e-05
		59	0.0	0.0	0.0	0.0	0.0	0.0	4.68e-06	-5.23e-06	0.0	-1.27e-06	-4.85e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.19e-06	-1.72e-06	-5.65e-06	-4.05e-06
33	45	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.88e-05	-3.06e-06	-1.65e-05	-6.04e-06
		58	0.0	0.0	0.0	0.0	0.0	0.0	3.01e-06	-1.38e-05	0.0	-1.02e-05	-6.85e-06
		59	0.0	0.0	0.0	0.0	0.0	0.0	3.12e-06	-3.48e-06	0.0	0.0	-3.24e-06
		17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.46e-06	-1.15e-06	-3.77e-06	-2.70e-06
34	10	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.75e-06	-1.88e-06	-6.09e-06	-4.28e-06
		59	0.0	0.0	0.0	0.0	0.0	0.0	4.83e-06	-5.20e-06	0.0	-1.22e-06	-4.91e-06
		60	0.0	0.0	0.0	0.0	0.0	0.0	5.23e-06	0.0	1.11e-06	4.07e-06	-2.19e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	2.94e-06	-1.53e-06	0.0	1.92e-06	-1.88e-06
34	11	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.75e-06	-1.88e-06	-6.09e-06	-4.28e-06
		59	0.0	0.0	0.0	0.0	0.0	0.0	4.83e-06	-5.20e-06	0.0	-1.22e-06	-4.91e-06
		60	0.0	0.0	0.0	0.0	0.0	0.0	5.23e-06	0.0	1.11e-06	4.07e-06	-2.19e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	2.94e-06	-1.53e-06	0.0	1.92e-06	-1.88e-06
34	45	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.83e-06	-1.25e-06	-4.06e-06	-2.85e-06
		59	0.0	0.0	0.0	0.0	0.0	0.0	3.22e-06	-3.47e-06	0.0	0.0	-3.27e-06
		60	0.0	0.0	0.0	0.0	0.0	0.0	3.49e-06	0.0	0.0	2.71e-06	-1.46e-06
		19	0.0	0.0	0.0	0.0	0.0	0.0	1.96e-06	-1.02e-06	0.0	1.28e-06	-1.25e-06
35	10	19	0.0	0.0	0.0	0.0	0.0	0.0	2.82e-06	-1.74e-06	0.0	1.68e-06	-1.98e-06
		60	0.0	0.0	0.0	0.0	0.0	0.0	5.31e-06	0.0	1.18e-06	4.09e-06	-2.25e-06
		61	0.0	0.0	0.0	0.0	0.0	0.0	4.90e-06	0.0	0.0	4.68e-06	0.0
		21	0.0	0.0	0.0	0.0	0.0	0.0	3.87e-06	0.0	0.0	3.66e-06	0.0
35	11	19	0.0	0.0	0.0	0.0	0.0	0.0	2.82e-06	-1.74e-06	0.0	1.68e-06	-1.98e-06
		60	0.0	0.0	0.0	0.0	0.0	0.0	5.31e-06	0.0	1.18e-06	4.09e-06	-2.25e-06
		61	0.0	0.0	0.0	0.0	0.0	0.0	4.90e-06	0.0	0.0	4.68e-06	0.0
		21	0.0	0.0	0.0	0.0	0.0	0.0	3.87e-06	0.0	0.0	3.66e-06	0.0
35	45	19	0.0	0.0	0.0	0.0	0.0	0.0	1.88e-06	-1.16e-06	0.0	1.12e-06	-1.32e-06
		60	0.0	0.0	0.0	0.0	0.0	0.0	3.54e-06	0.0	0.0	2.72e-06	-1.50e-06
		61	0.0	0.0	0.0	0.0	0.0	0.0	3.26e-06	0.0	0.0	3.12e-06	0.0
		21	0.0	0.0	0.0	0.0	0.0	0.0	2.58e-06	0.0	0.0	2.44e-06	0.0
36	10	21	0.0	0.0	0.0	0.0	0.0	0.0	3.76e-06	0.0	0.0	3.54e-06	0.0
		61	0.0	0.0	0.0	0.0	0.0	0.0	4.93e-06	0.0	0.0	4.68e-06	0.0
		62	0.0	0.0	0.0	0.0	0.0	0.0	3.47e-06	0.0	0.0	3.42e-06	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	3.03e-06	0.0	0.0	2.96e-06	0.0
36	11	21	0.0	0.0	0.0	0.0	0.0	0.0	3.76e-06	0.0	0.0	3.54e-06	0.0
		61	0.0	0.0	0.0	0.0	0.0	0.0	4.93e-06	0.0	0.0	4.68e-06	0.0
		62	0.0	0.0	0.0	0.0	0.0	0.0	3.47e-06	0.0	0.0	3.42e-06	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	3.03e-06	0.0	0.0	2.96e-06	0.0
36	45	21	0.0	0.0	0.0	0.0	0.0	0.0	2.51e-06	0.0	0.0	2.36e-06	0.0
		61	0.0	0.0	0.0	0.0	0.0	0.0	3.28e-06	0.0	0.0	3.12e-06	0.0
		62	0.0	0.0	0.0	0.0	0.0	0.0	2.31e-06	0.0	0.0	2.28e-06	0.0
		23	0.0	0.0	0.0	0.0	0.0	0.0	2.02e-06	0.0	0.0	1.97e-06	0.0
37	10	23	0.0	0.0	0.0	0.0	0.0	0.0	2.97e-06	0.0	0.0	2.90e-06	0.0
		62	0.0	0.0	0.0	0.0	0.0	0.0	3.48e-06	0.0	0.0	3.42e-06	0.0
		63	0.0	0.0	0.0	0.0	0.0	0.0	1.91e-06	0.0	0.0	1.90e-06	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	1.73e-06	0.0	0.0	1.69e-06	0.0
37	11	23	0.0	0.0	0.0	0.0	0.0	0.0	2.97e-06	0.0	0.0	2.90e-06	0.0
		62	0.0	0.0	0.0	0.0	0.0	0.0	3.48e-06	0.0	0.0	3.42e-06	0.0
		63	0.0	0.0	0.0	0.0	0.0	0.0	1.91e-06	0.0	0.0	1.90e-06	0.0
		25	0.0	0.0	0.0	0.0	0.0	0.0	1.73e-06	0.0	0.0	1.69e-06	0.0
37	45	23	0.0	0.0	0.0	0.0	0.0	0.0	1.98e-06	0.0	0.0	1.93e-06	0.0
		62	0.0	0.0	0.0	0.0	0.0	0.0	2.32e-06	0.0	0.0	2.28e-06	0.0
		63	0.0	0.0	0.0	0.0	0.0	0.0	1.27e-06	0.0	0.0	1.26e-06	0.0

44	11	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	45	37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	10	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.10e-06	-1.09e-06	0.0	0.0
		41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	11	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.10e-06	-1.09e-06	0.0	0.0
		41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	45	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	10	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.16e-06	-1.15e-06	0.0	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.10e-06	-1.27e-06	-1.39e-06	0.0
		43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.61e-06	0.0	-1.58e-06	0.0
46	11	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.16e-06	-1.15e-06	0.0	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.10e-06	-1.27e-06	-1.39e-06	0.0
		43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.61e-06	0.0	-1.58e-06	0.0
46	45	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.40e-06	0.0	0.0	0.0
		43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.08e-06	0.0	-1.05e-06	0.0
47	10	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.70e-06	0.0	-1.67e-06	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.26e-06	-1.16e-06	-1.41e-06	0.0
		73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.99e-06	0.0	-3.76e-06	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.62e-06	0.0	-2.61e-06	0.0
47	11	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.70e-06	0.0	-1.67e-06	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.26e-06	-1.16e-06	-1.41e-06	0.0
		73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.99e-06	0.0	-3.76e-06	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.62e-06	0.0	-2.61e-06	0.0
47	45	43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.13e-06	0.0	-1.11e-06	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.51e-06	0.0	0.0	0.0
		73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.66e-06	0.0	-2.51e-06	0.0
		45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.74e-06	0.0	-1.74e-06	0.0
48	10	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.80e-06	0.0	-2.73e-06	0.0
		73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.38e-06	0.0	-4.01e-06	1.31e-06
		74	0.0	0.0	0.0	0.0	0.0	0.0	2.12e-06	-5.17e-06	1.66e-06	-4.71e-06	-1.78e-06
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.39e-06	0.0	-2.01e-06	0.0
48	11	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.80e-06	0.0	-2.73e-06	0.0
		73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.38e-06	0.0	-4.01e-06	1.31e-06
		74	0.0	0.0	0.0	0.0	0.0	0.0	2.12e-06	-5.17e-06	1.66e-06	-4.71e-06	-1.78e-06
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.39e-06	0.0	-2.01e-06	0.0
48	45	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.87e-06	0.0	-1.82e-06	0.0
		73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.92e-06	0.0	-2.68e-06	0.0
		74	0.0	0.0	0.0	0.0	0.0	0.0	1.42e-06	-3.45e-06	1.11e-06	-3.14e-06	-1.18e-06
		47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.59e-06	0.0	-1.34e-06	0.0
49	10	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.56e-06	0.0	-1.98e-06	-1.27e-06
		74	0.0	0.0	0.0	0.0	0.0	0.0	2.18e-06	-4.66e-06	1.39e-06	-3.86e-06	-2.20e-06
		75	0.0	0.0	0.0	0.0	0.0	0.0	3.95e-06	-2.16e-06	1.49e-06	0.0	-2.99e-06
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.97e-06	0.0	0.0	-1.41e-06
49	11	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.56e-06	0.0	-1.98e-06	-1.27e-06
		74	0.0	0.0	0.0	0.0	0.0	0.0	2.18e-06	-4.66e-06	1.39e-06	-3.86e-06	-2.20e-06
		75	0.0	0.0	0.0	0.0	0.0	0.0	3.95e-06	-2.16e-06	1.49e-06	0.0	-2.99e-06
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.97e-06	0.0	0.0	-1.41e-06
49	45	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.70e-06	0.0	-1.32e-06	0.0
		74	0.0	0.0	0.0	0.0	0.0	0.0	1.46e-06	-3.11e-06	0.0	-2.57e-06	-1.47e-06
		75	0.0	0.0	0.0	0.0	0.0	0.0	2.63e-06	-1.44e-06	0.0	0.0	-2.00e-06
		49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.31e-06	0.0	0.0	0.0
50	10	51	1.07e-06	0.0	0.0	0.0	0.0	0.0	4.24e-05	-8.37e-05	-7.44e-05	3.31e-05	-3.30e-05
		76	1.67e-06	0.0	0.0	0.0	0.0	0.0	3.34e-05	-1.55e-04	-1.26e-04	4.70e-06	-6.76e-05
		77	1.95e-06	0.0	0.0	0.0	0.0	0.0	2.48e-05	-1.89e-04	-1.42e-04	-2.24e-05	-8.88e-05
		52	2.40e-06	0.0	0.0	0.0	0.0	0.0	1.72e-04	-1.16e-04	-2.83e-05	8.39e-05	-1.32e-04
50	11	51	1.07e-06	0.0	0.0	0.0	0.0	0.0	4.24e-05	-8.37e-05	-7.44e-05	3.31e-05	-3.30e-05
		76	1.67e-06	0.0	0.0	0.0	0.0	0.0	3.34e-05	-1.55e-04	-1.26e-04	4.70e-06	-6.76e-05
		77	1.95e-06	0.0	0.0	0.0	0.0	0.0	2.48e-05	-1.89e-04	-1.42e-04	-2.24e-05	-8.88e-05
		52	2.40e-06	0.0	0.0	0.0	0.0	0.0	1.72e-04	-1.16e-04	-2.83e-05	8.39e-05	-1.32e-04
50	45	51	0.0	0.0	0.0	0.0	0.0	0.0	2.83e-05	-5.58e-05	-4.96e-05	2.21e-05	-2.20e-05

		76	1.11e-06	0.0	0.0	0.0	0.0	0.0	2.23e-05	-1.03e-04	-8.40e-05	3.14e-06	-4.51e-05
		77	1.30e-06	0.0	0.0	0.0	0.0	0.0	1.65e-05	-1.26e-04	-9.49e-05	-1.49e-05	-5.92e-05
		52	1.60e-06	0.0	0.0	0.0	0.0	0.0	1.14e-04	-7.73e-05	-1.88e-05	5.59e-05	-8.82e-05
51	10	52	2.18e-06	0.0	0.0	0.0	0.0	0.0	1.63e-04	-9.73e-05	-3.27e-05	9.82e-05	-1.12e-04
		77	2.14e-06	0.0	0.0	0.0	0.0	0.0	3.49e-05	-2.04e-04	-1.38e-04	-3.10e-05	-1.07e-04
		78	2.16e-06	0.0	0.0	0.0	0.0	0.0	6.20e-05	-1.88e-04	-7.16e-05	-5.42e-05	-1.25e-04
		53	3.28e-06	0.0	0.0	0.0	0.0	0.0	1.45e-04	-2.45e-04	-5.02e-05	-4.95e-05	-1.95e-04
51	11	52	2.18e-06	0.0	0.0	0.0	0.0	0.0	1.63e-04	-9.73e-05	-3.27e-05	9.82e-05	-1.12e-04
		77	2.14e-06	0.0	0.0	0.0	0.0	0.0	3.49e-05	-2.04e-04	-1.38e-04	-3.10e-05	-1.07e-04
		78	2.16e-06	0.0	0.0	0.0	0.0	0.0	6.20e-05	-1.88e-04	-7.16e-05	-5.42e-05	-1.25e-04
		53	3.28e-06	0.0	0.0	0.0	0.0	0.0	1.45e-04	-2.45e-04	-5.02e-05	-4.95e-05	-1.95e-04
51	45	52	1.46e-06	0.0	0.0	0.0	0.0	0.0	1.09e-04	-6.48e-05	-2.18e-05	6.55e-05	-7.49e-05
		77	1.43e-06	0.0	0.0	0.0	0.0	0.0	2.33e-05	-1.36e-04	-9.21e-05	-2.06e-05	-7.11e-05
		78	1.44e-06	0.0	0.0	0.0	0.0	0.0	4.14e-05	-1.25e-04	-4.77e-05	-3.62e-05	-8.31e-05
		53	2.18e-06	0.0	0.0	0.0	0.0	0.0	9.68e-05	-1.63e-04	-3.35e-05	-3.30e-05	-1.30e-04
52	10	53	3.05e-06	0.0	0.0	0.0	0.0	0.0	1.32e-04	-2.30e-04	-2.15e-05	-7.62e-05	-1.79e-04
		78	2.24e-06	0.0	0.0	0.0	0.0	0.0	5.61e-05	-2.00e-04	-8.32e-05	-6.12e-05	-1.28e-04
		79	1.95e-06	0.0	0.0	0.0	0.0	0.0	5.19e-05	-1.72e-04	-3.14e-05	-8.86e-05	-1.08e-04
		54	2.44e-06	0.0	0.0	0.0	0.0	0.0	5.43e-05	-2.23e-04	-1.69e-05	-1.52e-04	-1.21e-04
52	11	53	3.05e-06	0.0	0.0	0.0	0.0	0.0	1.32e-04	-2.30e-04	-2.15e-05	-7.62e-05	-1.79e-04
		78	2.24e-06	0.0	0.0	0.0	0.0	0.0	5.61e-05	-2.00e-04	-8.32e-05	-6.12e-05	-1.28e-04
		79	1.95e-06	0.0	0.0	0.0	0.0	0.0	5.19e-05	-1.72e-04	-3.14e-05	-8.86e-05	-1.08e-04
		54	2.44e-06	0.0	0.0	0.0	0.0	0.0	5.43e-05	-2.23e-04	-1.69e-05	-1.52e-04	-1.21e-04
52	45	53	2.03e-06	0.0	0.0	0.0	0.0	0.0	8.82e-05	-1.53e-04	-1.43e-05	-5.08e-05	-1.19e-04
		78	1.50e-06	0.0	0.0	0.0	0.0	0.0	3.74e-05	-1.34e-04	-5.55e-05	-4.08e-05	-8.52e-05
		79	1.30e-06	0.0	0.0	0.0	0.0	0.0	3.46e-05	-1.15e-04	-2.10e-05	-5.91e-05	-7.21e-05
		54	1.63e-06	0.0	0.0	0.0	0.0	0.0	3.62e-05	-1.49e-04	-1.12e-05	-1.01e-04	-8.08e-05
53	10	54	2.38e-06	0.0	0.0	0.0	0.0	0.0	4.90e-05	-2.20e-04	-2.21e-05	-1.48e-04	-1.19e-04
		79	1.89e-06	0.0	0.0	0.0	0.0	0.0	4.55e-05	-1.70e-04	-3.16e-05	-9.32e-05	-1.03e-04
		80	1.36e-06	0.0	0.0	0.0	0.0	0.0	3.12e-05	-1.23e-04	-9.20e-06	-8.30e-05	-6.79e-05
		55	1.65e-06	0.0	0.0	0.0	0.0	0.0	1.73e-05	-1.62e-04	-1.67e-05	-1.28e-04	-7.03e-05
53	11	54	2.38e-06	0.0	0.0	0.0	0.0	0.0	4.90e-05	-2.20e-04	-2.21e-05	-1.48e-04	-1.19e-04
		79	1.89e-06	0.0	0.0	0.0	0.0	0.0	4.55e-05	-1.70e-04	-3.16e-05	-9.32e-05	-1.03e-04
		80	1.36e-06	0.0	0.0	0.0	0.0	0.0	3.12e-05	-1.23e-04	-9.20e-06	-8.30e-05	-6.79e-05
		55	1.65e-06	0.0	0.0	0.0	0.0	0.0	1.73e-05	-1.62e-04	-1.67e-05	-1.28e-04	-7.03e-05
53	45	54	1.59e-06	0.0	0.0	0.0	0.0	0.0	3.27e-05	-1.46e-04	-1.48e-05	-9.89e-05	-7.90e-05
		79	1.26e-06	0.0	0.0	0.0	0.0	0.0	3.03e-05	-1.14e-04	-2.10e-05	-6.22e-05	-6.89e-05
		80	0.0	0.0	0.0	0.0	0.0	0.0	2.08e-05	-8.22e-05	-6.13e-06	-5.53e-05	-4.53e-05
		55	1.10e-06	0.0	0.0	0.0	0.0	0.0	1.15e-05	-1.08e-04	-1.12e-05	-8.54e-05	-4.69e-05
54	10	55	1.65e-06	0.0	0.0	0.0	0.0	0.0	1.55e-05	-1.63e-04	-1.87e-05	-1.29e-04	-7.04e-05
		80	1.34e-06	0.0	0.0	0.0	0.0	0.0	3.08e-05	-1.22e-04	-8.81e-06	-8.20e-05	-6.68e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	2.16e-05	-7.45e-05	0.0	-5.35e-05	-3.97e-05
		56	0.0	0.0	0.0	0.0	0.0	0.0	6.23e-06	-9.88e-05	-1.04e-05	-8.21e-05	-3.84e-05
54	11	55	1.65e-06	0.0	0.0	0.0	0.0	0.0	1.55e-05	-1.63e-04	-1.87e-05	-1.29e-04	-7.04e-05
		80	1.34e-06	0.0	0.0	0.0	0.0	0.0	3.08e-05	-1.22e-04	-8.81e-06	-8.20e-05	-6.68e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	2.16e-05	-7.45e-05	0.0	-5.35e-05	-3.97e-05
		56	0.0	0.0	0.0	0.0	0.0	0.0	6.23e-06	-9.88e-05	-1.04e-05	-8.21e-05	-3.84e-05
54	45	55	1.10e-06	0.0	0.0	0.0	0.0	0.0	1.04e-05	-1.09e-04	-1.25e-05	-8.59e-05	-4.69e-05
		80	0.0	0.0	0.0	0.0	0.0	0.0	2.05e-05	-8.11e-05	-5.87e-06	-5.47e-05	-4.46e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	1.44e-05	-4.97e-05	0.0	-3.57e-05	-2.65e-05
		56	0.0	0.0	0.0	0.0	0.0	0.0	4.16e-06	-6.58e-05	-6.96e-06	-5.47e-05	-2.56e-05
55	10	56	0.0	0.0	0.0	0.0	0.0	0.0	5.70e-06	-1.00e-04	-1.14e-05	-8.34e-05	-3.90e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	2.20e-05	-7.31e-05	1.06e-06	-5.21e-05	-3.94e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.64e-05	-3.66e-05	4.44e-06	-2.47e-05	-2.22e-05
		57	0.0	0.0	0.0	0.0	0.0	0.0	4.35e-06	-5.03e-05	-4.28e-06	-4.17e-05	-1.99e-05
55	11	56	0.0	0.0	0.0	0.0	0.0	0.0	5.70e-06	-1.00e-04	-1.14e-05	-8.34e-05	-3.90e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	2.20e-05	-7.31e-05	1.06e-06	-5.21e-05	-3.94e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.64e-05	-3.66e-05	4.44e-06	-2.47e-05	-2.22e-05
		57	0.0	0.0	0.0	0.0	0.0	0.0	4.35e-06	-5.03e-05	-4.28e-06	-4.17e-05	-1.99e-05
55	45	56	0.0	0.0	0.0	0.0	0.0	0.0	3.80e-06	-6.70e-05	-7.61e-06	-5.56e-05	-2.60e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	1.47e-05	-4.87e-05	0.0	-3.47e-05	-2.63e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.09e-05	-2.44e-05	2.96e-06	-1.65e-05	-1.48e-05
		57	0.0	0.0	0.0	0.0	0.0	0.0	2.90e-06	-3.35e-05	-2.85e-06	-2.78e-05	-1.33e-05
56	10	57	0.0	0.0	0.0	0.0	0.0	0.0	4.14e-06	-5.15e-05	-4.86e-06	-4.25e-05	-2.05e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.68e-05	-3.58e-05	4.81e-06	-2.38e-05	-2.21e-05
		83	0.0	0.0	0.0	0.0	0.0	0.0	1.29e-05	-1.31e-05	5.19e-06	-5.45e-06	-1.18e-05
		58	0.0	0.0	0.0	0.0	0.0	0.0	4.51e-06	-2.00e-05	0.0	-1.50e-05	-9.88e-06
56	11	57	0.0	0.0	0.0	0.0	0.0	0.0	4.14e-06	-5.15e-05	-4.86e-06	-4.25e-05	-2.05e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.68e-05	-3.58e-05	4.81e-06	-2.38e-05	-2.21e-05
		83	0.0	0.0	0.0	0.0	0.0	0.0	1.29e-05	-1.31e-05	5.19e-06	-5.45e-06	-1.18e-05
		58	0.0	0.0	0.0	0.0	0.0	0.0	4.51e-06	-2.00e-05	0.0	-1.50e-05	-9.88e-06
56	45	57	0.0	0.0	0.0	0.0	0.0	0.0	2.76e-06	-3.43e-05	-3.24e-06	-2.83e-05	-1.37e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.12e-05	-2.39e-05	3.21e-06	-1.58e-05	-1.47e-05
		83	0.0	0.0	0.0	0.0	0.0	0.0	8.57e-06	-8.74e-06	3.46e-06	-3.63e-06	-7.90e-06
		58	0.0	0.0	0.0	0.0	0.0	0.0	3.01e-06	-1.33e-05	0.0	-9.97e-06	-6.59e-06
57	10	58	0.0	0.0	0.0	0.0	0.0	0.0	4.42e-06	-2.07e-05	0.0	-1.55e-05	-1.02e-05
		83	0.0	0.0	0.0	0.0	0.0	0.0	1.32e-05	-1.27e-05	5.43e-06	-4.91e-06	-1.19e-05

70	10	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.26e-06	-1.25e-06	0.0	0.0
		96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.21e-06	-2.05e-06	0.0	0.0
		97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.92e-06	-3.88e-06	0.0	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.24e-06	-1.29e-06	-1.25e-06	0.0
70	11	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.26e-06	-1.25e-06	0.0	0.0
		96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.21e-06	-2.05e-06	0.0	0.0
		97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.92e-06	-3.88e-06	0.0	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.24e-06	-1.29e-06	-1.25e-06	0.0
70	45	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.48e-06	-1.36e-06	0.0	0.0
		97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.61e-06	-2.58e-06	0.0	0.0
		72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.49e-06	0.0	0.0	0.0
71	10	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.07e-06	-1.76e-06	-1.73e-06	1.32e-06
		97	0.0	0.0	0.0	0.0	0.0	0.0	1.14e-06	-4.15e-06	-4.14e-06	1.12e-06	0.0
		98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.55e-06	-5.40e-06	-3.84e-06	4.87e-06
		73	0.0	0.0	0.0	0.0	0.0	0.0	1.33e-06	-4.37e-06	1.14e-06	-4.19e-06	1.02e-06
71	11	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.07e-06	-1.76e-06	-1.73e-06	1.32e-06
		97	0.0	0.0	0.0	0.0	0.0	0.0	1.14e-06	-4.15e-06	-4.14e-06	1.12e-06	0.0
		98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.55e-06	-5.40e-06	-3.84e-06	4.87e-06
		73	0.0	0.0	0.0	0.0	0.0	0.0	1.33e-06	-4.37e-06	1.14e-06	-4.19e-06	1.02e-06
71	45	72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.05e-06	-1.18e-06	-1.16e-06	0.0
		97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.77e-06	-2.76e-06	0.0	0.0
		98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.37e-06	-3.60e-06	-2.56e-06	3.25e-06
		73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.92e-06	0.0	-2.79e-06	0.0
72	10	73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.93e-06	0.0	-4.92e-06	0.0
		98	0.0	0.0	0.0	0.0	0.0	0.0	4.60e-06	-1.05e-05	0.0	-4.90e-06	7.27e-06
		99	0.0	0.0	0.0	0.0	0.0	0.0	1.14e-06	-1.37e-05	1.07e-06	-1.36e-05	-1.06e-06
		74	0.0	0.0	0.0	0.0	0.0	0.0	3.13e-06	-3.17e-06	3.08e-06	-3.11e-06	0.0
72	11	73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.93e-06	0.0	-4.92e-06	0.0
		98	0.0	0.0	0.0	0.0	0.0	0.0	4.60e-06	-1.05e-05	0.0	-4.90e-06	7.27e-06
		99	0.0	0.0	0.0	0.0	0.0	0.0	1.14e-06	-1.37e-05	1.07e-06	-1.36e-05	-1.06e-06
		74	0.0	0.0	0.0	0.0	0.0	0.0	3.13e-06	-3.17e-06	3.08e-06	-3.11e-06	0.0
72	45	73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.29e-06	0.0	-3.28e-06	0.0
		98	0.0	0.0	0.0	0.0	0.0	0.0	3.07e-06	-6.98e-06	0.0	-3.27e-06	4.85e-06
		99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-9.11e-06	0.0	-9.06e-06	0.0
		74	0.0	0.0	0.0	0.0	0.0	0.0	2.09e-06	-2.11e-06	2.05e-06	-2.07e-06	0.0
73	10	74	0.0	0.0	0.0	0.0	0.0	0.0	5.11e-06	-5.01e-06	4.10e-06	-4.00e-06	-3.04e-06
		99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.86e-06	0.0	-8.84e-06	0.0
		100	0.0	0.0	0.0	0.0	0.0	0.0	1.87e-05	0.0	1.82e-05	1.50e-06	-3.15e-06
		75	0.0	0.0	0.0	0.0	0.0	0.0	2.84e-06	-5.41e-06	-2.40e-06	0.0	-3.97e-06
73	11	74	0.0	0.0	0.0	0.0	0.0	0.0	5.11e-06	-5.01e-06	4.10e-06	-4.00e-06	-3.04e-06
		99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.86e-06	0.0	-8.84e-06	0.0
		100	0.0	0.0	0.0	0.0	0.0	0.0	1.87e-05	0.0	1.82e-05	1.50e-06	-3.15e-06
		75	0.0	0.0	0.0	0.0	0.0	0.0	2.84e-06	-5.41e-06	-2.40e-06	0.0	-3.97e-06
73	45	74	0.0	0.0	0.0	0.0	0.0	0.0	3.41e-06	-3.34e-06	2.73e-06	-2.67e-06	-2.02e-06
		99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.91e-06	0.0	-5.89e-06	0.0
		100	0.0	0.0	0.0	0.0	0.0	0.0	1.25e-05	0.0	1.21e-05	1.00e-06	-2.10e-06
		75	0.0	0.0	0.0	0.0	0.0	0.0	1.89e-06	-3.61e-06	-1.60e-06	0.0	-2.65e-06
74	10	76	1.94e-06	0.0	0.0	0.0	0.0	0.0	2.14e-05	-1.91e-04	-1.88e-04	1.88e-05	-2.34e-05
		101	1.17e-06	0.0	0.0	0.0	0.0	0.0	9.51e-05	-4.26e-05	6.02e-05	-7.69e-06	-5.99e-05
		102	1.92e-06	0.0	0.0	0.0	0.0	0.0	5.15e-06	-1.98e-04	-1.19e-04	-7.40e-05	-9.90e-05
		77	1.72e-06	0.0	0.0	0.0	0.0	0.0	4.36e-05	-1.54e-04	-8.66e-05	-2.36e-05	-9.35e-05
74	11	76	1.94e-06	0.0	0.0	0.0	0.0	0.0	2.14e-05	-1.91e-04	-1.88e-04	1.88e-05	-2.34e-05
		101	1.17e-06	0.0	0.0	0.0	0.0	0.0	9.51e-05	-4.26e-05	6.02e-05	-7.69e-06	-5.99e-05
		102	1.92e-06	0.0	0.0	0.0	0.0	0.0	5.15e-06	-1.98e-04	-1.19e-04	-7.40e-05	-9.90e-05
		77	1.72e-06	0.0	0.0	0.0	0.0	0.0	4.36e-05	-1.54e-04	-8.66e-05	-2.36e-05	-9.35e-05
74	45	76	1.29e-06	0.0	0.0	0.0	0.0	0.0	1.43e-05	-1.27e-04	-1.25e-04	1.25e-05	-1.56e-05
		101	0.0	0.0	0.0	0.0	0.0	0.0	6.34e-05	-2.84e-05	4.01e-05	-5.13e-06	-3.99e-05
		102	1.28e-06	0.0	0.0	0.0	0.0	0.0	3.43e-06	-1.32e-04	-7.91e-05	-4.93e-05	-6.60e-05
		77	1.15e-06	0.0	0.0	0.0	0.0	0.0	2.91e-05	-1.03e-04	-5.78e-05	-1.57e-05	-6.24e-05
75	10	77	1.79e-06	0.0	0.0	0.0	0.0	0.0	3.81e-05	-1.65e-04	-1.03e-04	-2.34e-05	-9.32e-05
		102	1.83e-06	0.0	0.0	0.0	0.0	0.0	1.03e-05	-1.85e-04	-1.05e-04	-7.02e-05	-9.62e-05
		103	1.32e-06	0.0	0.0	0.0	0.0	0.0	3.76e-05	-1.15e-04	-4.76e-05	-2.96e-05	-7.56e-05
		78	2.40e-06	0.0	0.0	0.0	0.0	0.0	6.01e-05	-2.14e-04	-9.22e-05	-6.18e-05	-1.36e-04
75	11	77	1.79e-06	0.0	0.0	0.0	0.0	0.0	3.81e-05	-1.65e-04	-1.03e-04	-2.34e-05	-9.32e-05
		102	1.83e-06	0.0	0.0	0.0	0.0	0.0	1.03e-05	-1.85e-04	-1.05e-04	-7.02e-05	-9.62e-05
		103	1.32e-06	0.0	0.0	0.0	0.0	0.0	3.76e-05	-1.15e-04	-4.76e-05	-2.96e-05	-7.56e-05
		78	2.40e-06	0.0	0.0	0.0	0.0	0.0	6.01e-05	-2.14e-04	-9.22e-05	-6.18e-05	-1.36e-04
75	45	77	1.20e-06	0.0	0.0	0.0	0.0	0.0	2.54e-05	-1.10e-04	-6.89e-05	-1.56e-05	-6.21e-05
		102	1.22e-06	0.0	0.0	0.0	0.0	0.0	6.85e-06	-1.24e-04	-6.99e-05	-4.68e-05	-6.42e-05
		103	0.0	0.0	0.0	0.0	0.0	0.0	2.50e-05	-7.65e-05	-3.17e-05	-1.97e-05	-5.04e-05
		78	1.60e-06	0.0	0.0	0.0	0.0	0.0	4.01e-05	-1.43e-04	-6.15e-05	-4.12e-05	-9.09e-05
76	10	78	2.23e-06	0.0	0.0	0.0	0.0	0.0	5.42e-05	-2.00e-04	-8.22e-05	-6.37e-05	-1.27e-04
		103	1.37e-06	0.0	0.0	0.0	0.0	0.0	2.90e-05	-1.26e-04	-4.52e-05	-5.20e-05	-7.76e-05
		104	1.36e-06	0.0	0.0	0.0	0.0	0.0	4.42e-05	-1.15e-04	-1.23e-05	-5.82e-05	-7.61e-05
		79	1.87e-06	0.0	0.0	0.0	0.0	0.0	4.41e-05	-1.69e-04	-3.50e-05	-8.96e-05	-1.03e-04
76	11	78	2.23e-06	0.0	0.0	0.0	0.0	0.0	5.42e-05	-2.00e-04	-8.22e-05	-6.37e-05	-1.27e-04

		103	1.37e-06	0.0	0.0	0.0	0.0	0.0	2.90e-05	-1.26e-04	-4.52e-05	-5.20e-05	-7.76e-05
		104	1.36e-06	0.0	0.0	0.0	0.0	0.0	4.42e-05	-1.15e-04	-1.23e-05	-5.82e-05	-7.61e-05
		79	1.87e-06	0.0	0.0	0.0	0.0	0.0	4.41e-05	-1.69e-04	-3.50e-05	-8.96e-05	-1.03e-04
76	45	78	1.48e-06	0.0	0.0	0.0	0.0	0.0	3.62e-05	-1.33e-04	-5.48e-05	-4.24e-05	-8.45e-05
		103	0.0	0.0	0.0	0.0	0.0	0.0	1.94e-05	-8.42e-05	-3.01e-05	-3.47e-05	-5.17e-05
		104	0.0	0.0	0.0	0.0	0.0	0.0	2.95e-05	-7.65e-05	-8.23e-06	-3.88e-05	-5.07e-05
		79	1.25e-06	0.0	0.0	0.0	0.0	0.0	2.94e-05	-1.13e-04	-2.34e-05	-5.97e-05	-6.86e-05
77	10	79	1.87e-06	0.0	0.0	0.0	0.0	0.0	3.99e-05	-1.71e-04	-3.69e-05	-9.44e-05	-1.02e-04
		104	1.33e-06	0.0	0.0	0.0	0.0	0.0	4.21e-05	-1.12e-04	-1.16e-05	-5.84e-05	-7.35e-05
		105	1.10e-06	0.0	0.0	0.0	0.0	0.0	4.15e-05	-8.78e-05	3.37e-06	-4.97e-05	-5.90e-05
		80	1.33e-06	0.0	0.0	0.0	0.0	0.0	3.06e-05	-1.21e-04	-8.94e-06	-8.13e-05	-6.65e-05
77	11	79	1.87e-06	0.0	0.0	0.0	0.0	0.0	3.99e-05	-1.71e-04	-3.69e-05	-9.44e-05	-1.02e-04
		104	1.33e-06	0.0	0.0	0.0	0.0	0.0	4.21e-05	-1.12e-04	-1.16e-05	-5.84e-05	-7.35e-05
		105	1.10e-06	0.0	0.0	0.0	0.0	0.0	4.15e-05	-8.78e-05	3.37e-06	-4.97e-05	-5.90e-05
		80	1.33e-06	0.0	0.0	0.0	0.0	0.0	3.06e-05	-1.21e-04	-8.94e-06	-8.13e-05	-6.65e-05
77	45	79	1.24e-06	0.0	0.0	0.0	0.0	0.0	2.66e-05	-1.14e-04	-2.46e-05	-6.29e-05	-6.77e-05
		104	0.0	0.0	0.0	0.0	0.0	0.0	2.81e-05	-7.48e-05	-7.76e-06	-3.89e-05	-4.90e-05
		105	0.0	0.0	0.0	0.0	0.0	0.0	2.77e-05	-5.86e-05	2.25e-06	-3.32e-05	-3.93e-05
		80	0.0	0.0	0.0	0.0	0.0	0.0	2.04e-05	-8.06e-05	-5.96e-06	-5.42e-05	-4.43e-05
78	10	80	1.34e-06	0.0	0.0	0.0	0.0	0.0	2.83e-05	-1.23e-04	-1.16e-05	-8.29e-05	-6.67e-05
		105	1.06e-06	0.0	0.0	0.0	0.0	0.0	4.09e-05	-8.46e-05	4.06e-06	-4.78e-05	-5.71e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	3.38e-05	-5.42e-05	8.37e-06	-2.88e-05	-3.99e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	2.23e-05	-7.28e-05	1.51e-06	-5.21e-05	-3.93e-05
78	11	80	1.34e-06	0.0	0.0	0.0	0.0	0.0	2.83e-05	-1.23e-04	-1.16e-05	-8.29e-05	-6.67e-05
		105	1.06e-06	0.0	0.0	0.0	0.0	0.0	4.09e-05	-8.46e-05	4.06e-06	-4.78e-05	-5.71e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	3.38e-05	-5.42e-05	8.37e-06	-2.88e-05	-3.99e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	2.23e-05	-7.28e-05	1.51e-06	-5.21e-05	-3.93e-05
78	45	80	0.0	0.0	0.0	0.0	0.0	0.0	1.89e-05	-8.19e-05	-7.76e-06	-5.53e-05	-4.45e-05
		105	0.0	0.0	0.0	0.0	0.0	0.0	2.73e-05	-5.64e-05	2.70e-06	-3.19e-05	-3.81e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	2.26e-05	-3.62e-05	5.58e-06	-1.92e-05	-2.66e-05
		81	0.0	0.0	0.0	0.0	0.0	0.0	1.49e-05	-4.86e-05	1.01e-06	-3.47e-05	-2.62e-05
79	10	81	0.0	0.0	0.0	0.0	0.0	0.0	2.15e-05	-7.42e-05	0.0	-5.27e-05	-3.99e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	3.39e-05	-5.19e-05	8.85e-06	-2.69e-05	-3.90e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	2.62e-05	-2.66e-05	8.36e-06	-8.73e-06	-2.49e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.72e-05	-3.57e-05	5.28e-06	-2.38e-05	-2.21e-05
79	11	81	0.0	0.0	0.0	0.0	0.0	0.0	2.15e-05	-7.42e-05	0.0	-5.27e-05	-3.99e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	3.39e-05	-5.19e-05	8.85e-06	-2.69e-05	-3.90e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	2.62e-05	-2.66e-05	8.36e-06	-8.73e-06	-2.49e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.72e-05	-3.57e-05	5.28e-06	-2.38e-05	-2.21e-05
79	45	81	0.0	0.0	0.0	0.0	0.0	0.0	1.43e-05	-4.94e-05	0.0	-3.51e-05	-2.66e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	2.26e-05	-3.46e-05	5.90e-06	-1.79e-05	-2.60e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	1.75e-05	-1.77e-05	5.58e-06	-5.82e-06	-1.66e-05
		82	0.0	0.0	0.0	0.0	0.0	0.0	1.14e-05	-2.38e-05	3.52e-06	-1.59e-05	-1.47e-05
80	10	82	0.0	0.0	0.0	0.0	0.0	0.0	1.70e-05	-3.65e-05	4.58e-06	-2.41e-05	-2.26e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	2.64e-05	-2.52e-05	8.69e-06	-7.44e-06	-2.45e-05
		108	0.0	0.0	0.0	0.0	0.0	0.0	2.01e-05	-9.27e-06	6.64e-06	1.16e-06	-1.46e-05
		83	0.0	0.0	0.0	0.0	0.0	0.0	1.35e-05	-1.27e-05	5.77e-06	-5.01e-06	-1.19e-05
80	11	82	0.0	0.0	0.0	0.0	0.0	0.0	1.70e-05	-3.65e-05	4.58e-06	-2.41e-05	-2.26e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	2.64e-05	-2.52e-05	8.69e-06	-7.44e-06	-2.45e-05
		108	0.0	0.0	0.0	0.0	0.0	0.0	2.01e-05	-9.27e-06	6.64e-06	1.16e-06	-1.46e-05
		83	0.0	0.0	0.0	0.0	0.0	0.0	1.35e-05	-1.27e-05	5.77e-06	-5.01e-06	-1.19e-05
80	45	82	0.0	0.0	0.0	0.0	0.0	0.0	1.13e-05	-2.43e-05	3.06e-06	-1.61e-05	-1.51e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	1.76e-05	-1.68e-05	5.80e-06	-4.96e-06	-1.63e-05
		108	0.0	0.0	0.0	0.0	0.0	0.0	1.34e-05	-6.18e-06	4.42e-06	2.77e-06	-9.74e-06
		83	0.0	0.0	0.0	0.0	0.0	0.0	8.98e-06	-8.46e-06	3.85e-06	-3.34e-06	-7.95e-06
81	10	83	0.0	0.0	0.0	0.0	0.0	0.0	1.35e-05	-1.31e-05	5.49e-06	-5.09e-06	-1.22e-05
		108	0.0	0.0	0.0	0.0	0.0	0.0	2.04e-05	-8.61e-06	6.85e-06	4.91e-06	-1.45e-05
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.55e-05	-1.30e-06	4.64e-06	9.54e-06	-8.03e-06
		84	0.0	0.0	0.0	0.0	0.0	0.0	1.07e-05	-1.68e-06	4.79e-06	4.26e-06	-6.20e-06
81	11	83	0.0	0.0	0.0	0.0	0.0	0.0	1.35e-05	-1.31e-05	5.49e-06	-5.09e-06	-1.22e-05
		108	0.0	0.0	0.0	0.0	0.0	0.0	2.04e-05	-8.61e-06	6.85e-06	4.91e-06	-1.45e-05
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.55e-05	-1.30e-06	4.64e-06	9.54e-06	-8.03e-06
		84	0.0	0.0	0.0	0.0	0.0	0.0	1.07e-05	-1.68e-06	4.79e-06	4.26e-06	-6.20e-06
81	45	83	0.0	0.0	0.0	0.0	0.0	0.0	9.02e-06	-8.76e-06	3.66e-06	-3.39e-06	-8.16e-06
		108	0.0	0.0	0.0	0.0	0.0	0.0	1.36e-05	-5.74e-06	4.57e-06	3.27e-06	-9.64e-06
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.03e-05	0.0	3.10e-06	6.36e-06	-5.35e-06
		84	0.0	0.0	0.0	0.0	0.0	0.0	7.15e-06	-1.12e-06	3.19e-06	2.84e-06	-4.13e-06
82	10	84	0.0	0.0	0.0	0.0	0.0	0.0	1.08e-05	-1.89e-06	4.69e-06	4.25e-06	-6.36e-06
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.58e-05	-1.06e-06	4.78e-06	9.94e-06	-8.01e-06
		110	0.0	0.0	0.0	0.0	0.0	0.0	1.17e-05	1.02e-06	2.95e-06	9.78e-06	-4.10e-06
		85	0.0	0.0	0.0	0.0	0.0	0.0	8.68e-06	1.57e-06	3.37e-06	6.88e-06	-3.09e-06
82	11	84	0.0	0.0	0.0	0.0	0.0	0.0	1.08e-05	-1.89e-06	4.69e-06	4.25e-06	-6.36e-06
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.58e-05	-1.06e-06	4.78e-06	9.94e-06	-8.01e-06
		110	0.0	0.0	0.0	0.0	0.0	0.0	1.17e-05	1.02e-06	2.95e-06	9.78e-06	-4.10e-06
		85	0.0	0.0	0.0	0.0	0.0	0.0	8.68e-06	1.57e-06	3.37e-06	6.88e-06	-3.09e-06
82	45	84	0.0	0.0	0.0	0.0	0.0	0.0	7.23e-06	-1.26e-06	3.13e-06	2.84e-06	-4.24e-06
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.05e-05	0.0	3.18e-06	6.63e-06	-5.34e-06

		92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	11	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		116	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	45	91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		116	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	10	92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	11	92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	45	92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91	10	93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	-1.20e-06	0.0	0.0	0.0	0.0
		94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91	11	93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	-1.20e-06	0.0	0.0	0.0	0.0
		94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91	45	93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92	10	94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.18e-06	0.0	0.0	0.0
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.88e-06	0.0	0.0	-1.17e-06
		95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.42e-06	-1.07e-06	0.0	0.0
92	11	94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.18e-06	0.0	0.0	0.0
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.88e-06	0.0	0.0	-1.17e-06
		95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.42e-06	-1.07e-06	0.0	0.0
92	45	94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.25e-06	0.0	0.0	0.0
		95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93	10	95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.47e-06	-1.08e-06	0.0	0.0
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.83e-06	0.0	0.0	-1.16e-06
		121	0.0	0.0	0.0	0.0	0.0	0.0	1.10e-06	-3.07e-06	-1.77e-06	0.0	-1.94e-06
		96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.26e-06	-2.08e-06	0.0	0.0
93	11	95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.47e-06	-1.08e-06	0.0	0.0
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.83e-06	0.0	0.0	-1.16e-06
		121	0.0	0.0	0.0	0.0	0.0	0.0	1.10e-06	-3.07e-06	-1.77e-06	0.0	-1.94e-06
		96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.26e-06	-2.08e-06	0.0	0.0
93	45	95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.22e-06	0.0	0.0	0.0
		121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.05e-06	-1.18e-06	0.0	-1.29e-06
		96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.51e-06	-1.39e-06	0.0	0.0
94	10	96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.58e-06	-2.19e-06	0.0	-1.01e-06
		121	0.0	0.0	0.0	0.0	0.0	0.0	1.05e-06	-2.64e-06	-1.33e-06	0.0	-1.77e-06
		122	0.0	0.0	0.0	0.0	0.0	0.0	2.57e-06	-6.01e-06	-4.57e-06	1.14e-06	-3.20e-06
		97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.23e-06	-4.13e-06	0.0	0.0
94	11	96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.58e-06	-2.19e-06	0.0	-1.01e-06
		121	0.0	0.0	0.0	0.0	0.0	0.0	1.05e-06	-2.64e-06	-1.33e-06	0.0	-1.77e-06
		122	0.0	0.0	0.0	0.0	0.0	0.0	2.57e-06	-6.01e-06	-4.57e-06	1.14e-06	-3.20e-06
		97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.23e-06	-4.13e-06	0.0	0.0
94	45	96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.72e-06	-1.46e-06	0.0	0.0
		121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.76e-06	0.0	0.0	-1.18e-06
		122	0.0	0.0	0.0	0.0	0.0	0.0	1.72e-06	-4.00e-06	-3.05e-06	0.0	-2.13e-06
		97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.82e-06	-2.75e-06	0.0	0.0
95	10	97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.25e-06	-5.05e-06	0.0	0.0
		122	0.0	0.0	0.0	0.0	0.0	0.0	3.43e-06	-2.98e-06	-2.50e-06	2.95e-06	-1.68e-06
		123	0.0	0.0	0.0	0.0	0.0	0.0	2.21e-06	-1.63e-05	-1.53e-05	1.13e-06	-4.34e-06
		98	0.0	0.0	0.0	0.0	0.0	0.0	5.40e-06	-1.04e-05	-6.40e-06	1.37e-06	6.90e-06
95	11	97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.25e-06	-5.05e-06	0.0	0.0
		122	0.0	0.0	0.0	0.0	0.0	0.0	3.43e-06	-2.98e-06	-2.50e-06	2.95e-06	-1.68e-06
		123	0.0	0.0	0.0	0.0	0.0	0.0	2.21e-06	-1.63e-05	-1.53e-05	1.13e-06	-4.34e-06
		98	0.0	0.0	0.0	0.0	0.0	0.0	5.40e-06	-1.04e-05	-6.40e-06	1.37e-06	6.90e-06

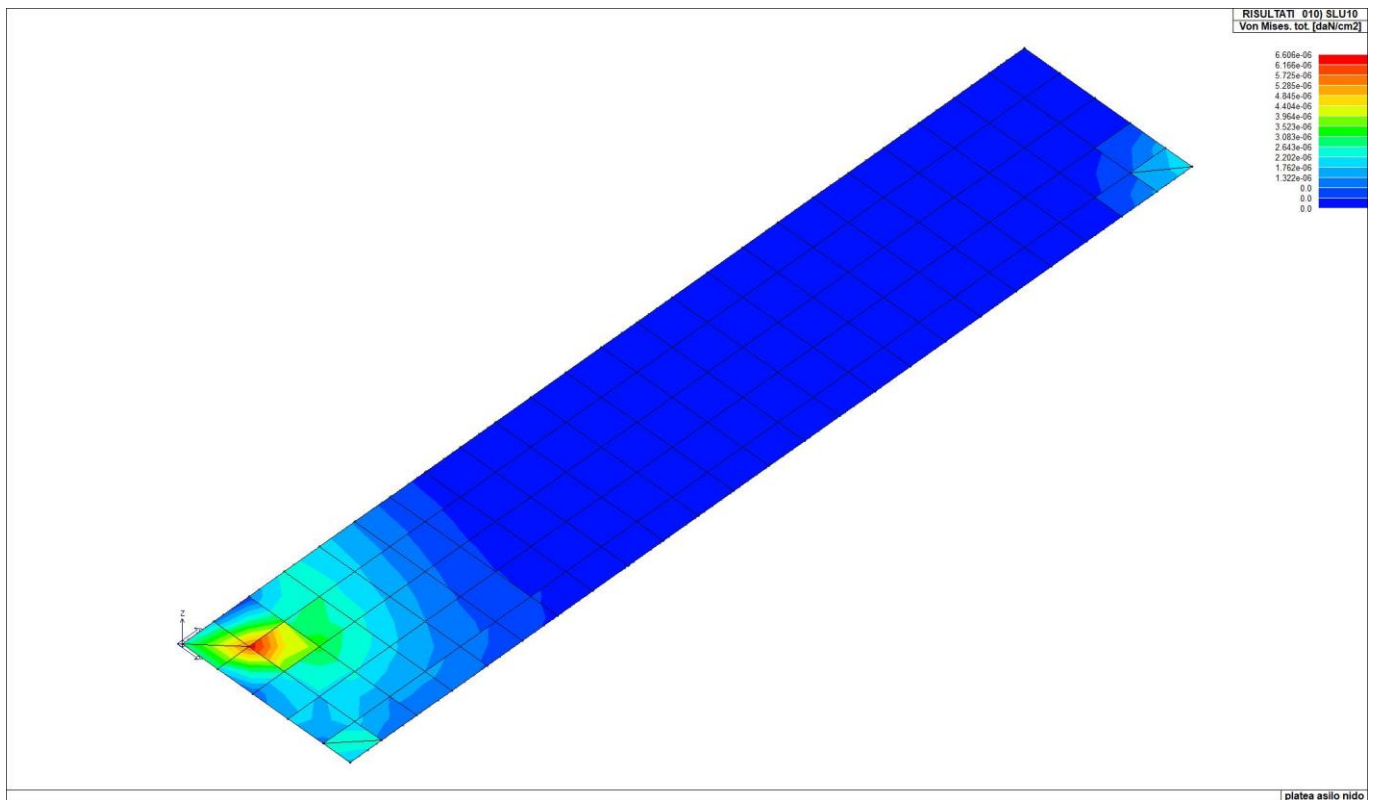
95	45	97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.50e-06	-3.37e-06	0.0	0.0
		122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.28e-06	-1.99e-06	-1.67e-06	1.97e-06	-1.12e-06
		123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.47e-06	-1.09e-05	-1.02e-05	0.0	-2.89e-06
		98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.60e-06	-6.96e-06	-4.27e-06	0.0	4.60e-06
96	10	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-7.75e-06	-2.91e-05	-2.03e-05	-1.65e-05	1.05e-05
		123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.56e-05	-5.46e-06	-5.46e-06	3.56e-05	0.0
		124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.40e-05	-8.86e-05	-6.88e-05	-5.38e-05	2.62e-05
		99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.38e-05	-7.86e-06	3.28e-05	-6.86e-06	6.37e-06
96	11	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-7.75e-06	-2.91e-05	-2.03e-05	-1.65e-05	1.05e-05
		123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.56e-05	-5.46e-06	-5.46e-06	3.56e-05	0.0
		124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.40e-05	-8.86e-05	-6.88e-05	-5.38e-05	2.62e-05
		99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.38e-05	-7.86e-06	3.28e-05	-6.86e-06	6.37e-06
96	45	98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.17e-06	-1.94e-05	-1.35e-05	-1.10e-05	7.00e-06
		123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.37e-05	-3.64e-06	-3.64e-06	2.37e-05	0.0
		124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.27e-05	-5.91e-05	-4.59e-05	-3.59e-05	1.75e-05
		99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.25e-05	-5.24e-06	2.19e-05	-4.57e-06	4.25e-06
97	10	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.16e-05	-1.68e-05	3.96e-05	-1.47e-05	-1.08e-05
		124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.59e-05	-6.17e-05	-2.45e-05	3.85e-05
		125	1.61e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.72e-04	8.56e-06	1.63e-04	1.82e-05	3.85e-05
		100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.98e-06	-4.42e-05	-3.15e-05	-2.77e-06	-2.30e-05
97	11	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.16e-05	-1.68e-05	3.96e-05	-1.47e-05	-1.08e-05
		124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.59e-05	-6.17e-05	-2.45e-05	3.85e-05
		125	1.61e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.72e-04	8.56e-06	1.63e-04	1.82e-05	3.85e-05
		100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.98e-06	-4.42e-05	-3.15e-05	-2.77e-06	-2.30e-05
97	45	99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.78e-05	-1.12e-05	2.64e-05	-9.83e-06	-7.20e-06
		124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.73e-05	-4.12e-05	-1.63e-05	2.57e-05
		125	1.08e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.15e-04	5.71e-06	1.08e-04	1.21e-05	2.56e-05
		100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.65e-06	-2.95e-05	-2.10e-05	-1.85e-06	-1.53e-05
98	10	101	2.68e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.78e-04	-1.44e-04	-1.19e-04	1.54e-04	-8.59e-05
		127	1.64e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.15e-04	-8.04e-05	-6.76e-05	1.03e-04	-4.84e-05
		126	2.49e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.72e-04	-1.26e-04	-1.15e-04	1.61e-04	-5.64e-05
98	11	101	2.68e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.78e-04	-1.44e-04	-1.19e-04	1.54e-04	-8.59e-05
		127	1.64e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.15e-04	-8.04e-05	-6.76e-05	1.03e-04	-4.84e-05
		126	2.49e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.72e-04	-1.26e-04	-1.15e-04	1.61e-04	-5.64e-05
98	45	101	1.79e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.19e-04	-9.58e-05	-7.93e-05	1.02e-04	-5.73e-05
		127	1.09e-06	0.0	0.0	0.0	0.0	0.0	0.0	7.70e-05	-5.36e-05	-4.51e-05	6.85e-05	-3.22e-05
		126	1.66e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.15e-04	-8.41e-05	-7.67e-05	1.08e-04	-3.76e-05
99	10	102	2.00e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.81e-05	-1.99e-04	1.80e-05	-1.99e-04	-6.13e-06
		101	2.50e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.53e-04	-1.48e-04	1.46e-04	-1.41e-04	4.40e-05
		126	2.43e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.56e-04	-1.36e-04	1.55e-04	-1.36e-04	-1.28e-05
99	11	102	2.00e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.81e-05	-1.99e-04	1.80e-05	-1.99e-04	-6.13e-06
		101	2.50e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.53e-04	-1.48e-04	1.46e-04	-1.41e-04	4.40e-05
		126	2.43e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.56e-04	-1.36e-04	1.55e-04	-1.36e-04	-1.28e-05
99	45	102	1.34e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.21e-05	-1.33e-04	1.20e-05	-1.33e-04	-4.08e-06
		101	1.67e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.02e-04	-9.85e-05	9.76e-05	-9.41e-05	2.93e-05
		126	1.62e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.04e-04	-9.10e-05	1.03e-04	-9.06e-05	-8.56e-06
100	10	102	1.91e-06	0.0	0.0	0.0	0.0	0.0	0.0	2.63e-06	-1.97e-04	-1.16e-04	-7.82e-05	-9.81e-05
		126	1.18e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.07e-04	-2.60e-05	-5.34e-06	8.67e-05	-4.83e-05
		128	1.06e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.19e-05	-1.04e-04	2.64e-06	-9.45e-05	-3.13e-05
		103	1.31e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.92e-05	-1.05e-04	-4.05e-05	-1.52e-05	-7.60e-05
100	11	102	1.91e-06	0.0	0.0	0.0	0.0	0.0	0.0	2.63e-06	-1.97e-04	-1.16e-04	-7.82e-05	-9.81e-05
		126	1.18e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.07e-04	-2.60e-05	-5.34e-06	8.67e-05	-4.83e-05
		128	1.06e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.19e-05	-1.04e-04	2.64e-06	-9.45e-05	-3.13e-05
		103	1.31e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.92e-05	-1.05e-04	-4.05e-05	-1.52e-05	-7.60e-05
100	45	102	1.27e-06	0.0	0.0	0.0	0.0	0.0	0.0	1.76e-06	-1.31e-04	-7.76e-05	-5.21e-05	-6.54e-05
		126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.16e-05	-1.74e-05	-3.56e-06	5.78e-05	-3.22e-05
		128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.90e-06	-6.91e-05	1.76e-06	-6.30e-05	-2.09e-05
		103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.28e-05	-6.99e-05	-2.70e-05	-1.01e-05	-5.07e-05
101	10	103	1.54e-06	0.0	0.0	0.0	0.0	0.0	0.0	3.55e-05	-1.40e-04	-4.50e-05	-5.94e-05	-8.74e-05
		128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.46e-05	-7.33e-05	2.45e-06	-4.11e-05	-4.94e-05
		129	1.03e-06	0.0	0.0	0.0	0.0	0.0	0.0	3.10e-05	-8.82e-05	-1.62e-06	-5.56e-05	-5.32e-05
		104	1.46e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.33e-05	-1.18e-04	-9.76e-06	-5.54e-05	-8.28e-05
101	11	103	1.54e-06	0.0	0.0	0.0	0.0	0.0	0.0	3.55e-05	-1.40e-04	-4.50e-05	-5.94e-05	-8.74e-05
		128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.46e-05	-7.33e-05	2.45e-06	-4.11e-05	-4.94e-05
		129	1.03e-06	0.0	0.0	0.0	0.0	0.0	0.0	3.10e-05	-8.82e-05	-1.62e-06	-5.56e-05	-5.32e-05
		104	1.46e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.33e-05	-1.18e-04	-9.76e-06	-5.54e-05	-8.28e-05
101	45	103	1.03e-06	0.0	0.0	0.0	0.0	0.0	0.0	2.37e-05	-9.33e-05	-3.00e-05	-3.96e-05	-5.83e-05
		128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.31e-05	-4.89e-05	1.64e-06	-2.74e-05	-3.29e-05
		129	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.07e-05	-5.88e-05	-1.08e-06	-3.71e-05	-3.55e-05
		104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.56e-05	-7.90e-05	-6.51e-06	-3.69e-05	-5.52e-05
102	10	104	1.50e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.01e-05	-1.25e-04	-1.27e-05	-6.20e-05	-8.39e-05
		129	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.20e-05	-8.08e-05	0.0	-4.95e-05	-5.06e-05
		130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.05e-05	-6.94e-05	-1.54e-06	-3.74e-05	-4.66e-05
		105	1.18e-06	0.0	0.0	0.0	0.0	0.0	0.0	4.85e-05	-9.17e-05	4.98e-06	-4.82e-05	-6.48e-05
102	11	104	1.50e-06	0.0	0.0	0.0	0.0	0.0	0.0	5.01e-05	-1.25e-04	-1.27e-05	-6.20e-05	-8.39e-05
		129	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.20e-05	-8.08e-05	0.0	-4.95e-05	-5.06e-05
		130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.05e-05	-6.94e-05	-1.54e-06	-3.74e-05	-4.66e-05

102	45	105	1.18e-06	0.0	0.0	0.0	0.0	0.0	4.85e-05	-9.17e-05	4.98e-06	-4.82e-05	-6.48e-05
		104	0.0	0.0	0.0	0.0	0.0	0.0	3.34e-05	-8.32e-05	-8.46e-06	-4.13e-05	-5.59e-05
		129	0.0	0.0	0.0	0.0	0.0	0.0	2.14e-05	-5.39e-05	0.0	-3.30e-05	-3.37e-05
		130	0.0	0.0	0.0	0.0	0.0	0.0	2.03e-05	-4.63e-05	-1.03e-06	-2.49e-05	-3.11e-05
103	10	105	0.0	0.0	0.0	0.0	0.0	0.0	3.23e-05	-6.11e-05	3.32e-06	-3.22e-05	-4.32e-05
		105	1.20e-06	0.0	0.0	0.0	0.0	0.0	4.79e-05	-9.40e-05	3.04e-06	-4.91e-05	-6.60e-05
		130	0.0	0.0	0.0	0.0	0.0	0.0	2.81e-05	-6.37e-05	0.0	-3.51e-05	-4.25e-05
		131	0.0	0.0	0.0	0.0	0.0	0.0	2.59e-05	-4.42e-05	-1.17e-06	-1.71e-05	-3.41e-05
103	11	106	0.0	0.0	0.0	0.0	0.0	0.0	3.88e-05	-5.71e-05	9.19e-06	-2.74e-05	-4.43e-05
		105	1.20e-06	0.0	0.0	0.0	0.0	0.0	4.79e-05	-9.40e-05	3.04e-06	-4.91e-05	-6.60e-05
		130	0.0	0.0	0.0	0.0	0.0	0.0	2.81e-05	-6.37e-05	0.0	-3.51e-05	-4.25e-05
		131	0.0	0.0	0.0	0.0	0.0	0.0	2.59e-05	-4.42e-05	-1.17e-06	-1.71e-05	-3.41e-05
103	45	106	0.0	0.0	0.0	0.0	0.0	0.0	3.88e-05	-5.71e-05	9.19e-06	-2.74e-05	-4.43e-05
		105	0.0	0.0	0.0	0.0	0.0	0.0	3.19e-05	-6.26e-05	2.03e-06	-3.27e-05	-4.40e-05
		130	0.0	0.0	0.0	0.0	0.0	0.0	1.87e-05	-4.24e-05	0.0	-2.34e-05	-2.83e-05
		131	0.0	0.0	0.0	0.0	0.0	0.0	1.73e-05	-2.94e-05	0.0	-1.14e-05	-2.27e-05
104	10	106	0.0	0.0	0.0	0.0	0.0	0.0	2.59e-05	-3.80e-05	6.12e-06	-1.83e-05	-2.95e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	3.96e-05	-5.83e-05	8.38e-06	-2.71e-05	-4.57e-05
		131	0.0	0.0	0.0	0.0	0.0	0.0	2.35e-05	-3.97e-05	-1.05e-06	-1.51e-05	-3.08e-05
		132	0.0	0.0	0.0	0.0	0.0	0.0	2.20e-05	-2.27e-05	0.0	0.0	-2.24e-05
104	11	107	0.0	0.0	0.0	0.0	0.0	0.0	2.95e-05	-2.86e-05	8.67e-06	-7.74e-06	-2.78e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	3.96e-05	-5.83e-05	8.38e-06	-2.71e-05	-4.57e-05
		131	0.0	0.0	0.0	0.0	0.0	0.0	2.35e-05	-3.97e-05	-1.05e-06	-1.51e-05	-3.08e-05
		132	0.0	0.0	0.0	0.0	0.0	0.0	2.20e-05	-2.27e-05	0.0	0.0	-2.24e-05
104	45	107	0.0	0.0	0.0	0.0	0.0	0.0	2.95e-05	-2.86e-05	8.67e-06	-7.74e-06	-2.78e-05
		106	0.0	0.0	0.0	0.0	0.0	0.0	2.64e-05	-3.89e-05	5.58e-06	-1.81e-05	-3.04e-05
		131	0.0	0.0	0.0	0.0	0.0	0.0	1.57e-05	-2.65e-05	0.0	-1.01e-05	-2.05e-05
		132	0.0	0.0	0.0	0.0	0.0	0.0	1.47e-05	-1.52e-05	0.0	0.0	-1.49e-05
105	10	107	0.0	0.0	0.0	0.0	0.0	0.0	1.97e-05	-1.90e-05	5.78e-06	-5.16e-06	-1.86e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	3.08e-05	-2.93e-05	8.61e-06	-7.16e-06	-2.90e-05
		132	0.0	0.0	0.0	0.0	0.0	0.0	2.03e-05	-2.00e-05	-1.13e-06	1.46e-06	-2.01e-05
		133	0.0	0.0	0.0	0.0	0.0	0.0	1.92e-05	-9.57e-06	0.0	9.99e-06	-1.34e-05
105	11	108	0.0	0.0	0.0	0.0	0.0	0.0	2.21e-05	-1.07e-05	6.65e-06	4.78e-06	-1.64e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	3.08e-05	-2.93e-05	8.61e-06	-7.16e-06	-2.90e-05
		132	0.0	0.0	0.0	0.0	0.0	0.0	2.03e-05	-2.00e-05	-1.13e-06	1.46e-06	-2.01e-05
		133	0.0	0.0	0.0	0.0	0.0	0.0	1.92e-05	-9.57e-06	0.0	9.99e-06	-1.34e-05
105	45	108	0.0	0.0	0.0	0.0	0.0	0.0	2.21e-05	-1.07e-05	6.65e-06	4.78e-06	-1.64e-05
		107	0.0	0.0	0.0	0.0	0.0	0.0	2.05e-05	-1.95e-05	5.74e-06	-4.77e-06	-1.93e-05
		132	0.0	0.0	0.0	0.0	0.0	0.0	1.35e-05	-1.33e-05	0.0	0.0	-1.34e-05
		133	0.0	0.0	0.0	0.0	0.0	0.0	1.28e-05	-6.38e-06	0.0	6.66e-06	-8.94e-06
106	10	108	0.0	0.0	0.0	0.0	0.0	0.0	1.47e-05	-7.12e-06	4.43e-06	3.19e-06	-1.09e-05
		108	0.0	0.0	0.0	0.0	0.0	0.0	2.33e-05	-1.11e-05	6.92e-06	5.29e-06	-1.72e-05
		133	0.0	0.0	0.0	0.0	0.0	0.0	1.84e-05	-8.41e-06	0.0	1.09e-05	-1.20e-05
		134	0.0	0.0	0.0	0.0	0.0	0.0	1.64e-05	-3.39e-06	0.0	1.31e-05	-7.33e-06
106	11	109	0.0	0.0	0.0	0.0	0.0	0.0	1.66e-05	-2.21e-06	4.51e-06	9.89e-06	-9.02e-06
		108	0.0	0.0	0.0	0.0	0.0	0.0	2.33e-05	-1.11e-05	6.92e-06	5.29e-06	-1.72e-05
		133	0.0	0.0	0.0	0.0	0.0	0.0	1.84e-05	-8.41e-06	0.0	1.09e-05	-1.20e-05
		134	0.0	0.0	0.0	0.0	0.0	0.0	1.64e-05	-3.39e-06	0.0	1.31e-05	-7.33e-06
106	45	109	0.0	0.0	0.0	0.0	0.0	0.0	1.66e-05	-2.21e-06	4.51e-06	9.89e-06	-9.02e-06
		108	0.0	0.0	0.0	0.0	0.0	0.0	1.55e-05	-7.38e-06	4.61e-06	3.53e-06	-1.14e-05
		133	0.0	0.0	0.0	0.0	0.0	0.0	1.23e-05	-5.60e-06	0.0	7.28e-06	-8.02e-06
		134	0.0	0.0	0.0	0.0	0.0	0.0	1.09e-05	-2.26e-06	0.0	8.75e-06	-4.89e-06
107	10	109	0.0	0.0	0.0	0.0	0.0	0.0	1.11e-05	-1.48e-06	3.01e-06	6.59e-06	-6.02e-06
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.74e-05	-2.31e-06	4.84e-06	1.03e-05	-9.48e-06
		134	0.0	0.0	0.0	0.0	0.0	0.0	1.62e-05	-3.21e-06	0.0	1.37e-05	-6.60e-06
		135	0.0	0.0	0.0	0.0	0.0	0.0	1.28e-05	-1.01e-06	0.0	1.18e-05	-3.60e-06
107	11	110	0.0	0.0	0.0	0.0	0.0	0.0	1.22e-05	0.0	2.78e-06	9.95e-06	-4.63e-06
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.74e-05	-2.31e-06	4.84e-06	1.03e-05	-9.48e-06
		134	0.0	0.0	0.0	0.0	0.0	0.0	1.62e-05	-3.21e-06	0.0	1.37e-05	-6.60e-06
		135	0.0	0.0	0.0	0.0	0.0	0.0	1.28e-05	-1.01e-06	0.0	1.18e-05	-3.60e-06
107	45	110	0.0	0.0	0.0	0.0	0.0	0.0	1.22e-05	0.0	2.78e-06	9.95e-06	-4.63e-06
		109	0.0	0.0	0.0	0.0	0.0	0.0	1.16e-05	-1.54e-06	3.23e-06	6.84e-06	-6.32e-06
		134	0.0	0.0	0.0	0.0	0.0	0.0	1.08e-05	-2.14e-06	0.0	9.11e-06	-4.40e-06
		135	0.0	0.0	0.0	0.0	0.0	0.0	8.56e-06	0.0	0.0	7.88e-06	-2.40e-06
108	10	110	0.0	0.0	0.0	0.0	0.0	0.0	8.15e-06	0.0	1.85e-06	6.63e-06	-3.09e-06
		110	0.0	0.0	0.0	0.0	0.0	0.0	1.26e-05	0.0	3.04e-06	1.02e-05	-4.86e-06
		135	0.0	0.0	0.0	0.0	0.0	0.0	1.29e-05	-1.17e-06	0.0	1.21e-05	-3.30e-06
		136	0.0	0.0	0.0	0.0	0.0	0.0	8.89e-06	0.0	0.0	8.63e-06	-1.53e-06
108	11	111	0.0	0.0	0.0	0.0	0.0	0.0	8.32e-06	0.0	1.55e-06	7.62e-06	-2.18e-06
		110	0.0	0.0	0.0	0.0	0.0	0.0	1.26e-05	0.0	3.04e-06	1.02e-05	-4.86e-06
		135	0.0	0.0	0.0	0.0	0.0	0.0	1.29e-05	-1.17e-06	0.0	1.21e-05	-3.30e-06
		136	0.0	0.0	0.0	0.0	0.0	0.0	8.89e-06	0.0	0.0	8.63e-06	-1.53e-06
108	45	111	0.0	0.0	0.0	0.0	0.0	0.0	8.32e-06	0.0	1.55e-06	7.62e-06	-2.18e-06
		110	0.0	0.0	0.0	0.0	0.0	0.0	8.43e-06	0.0	2.03e-06	6.80e-06	-3.24e-06
		135	0.0	0.0	0.0	0.0	0.0	0.0	8.62e-06	0.0	0.0	8.07e-06	-2.20e-06
		136	0.0	0.0	0.0	0.0	0.0	0.0	5.93e-06	0.0	0.0	5.75e-06	-1.02e-06
		111	0.0	0.0	0.0	0.0	0.0	0.0	5.55e-06	0.0	1.03e-06	5.08e-06	-1.45e-06

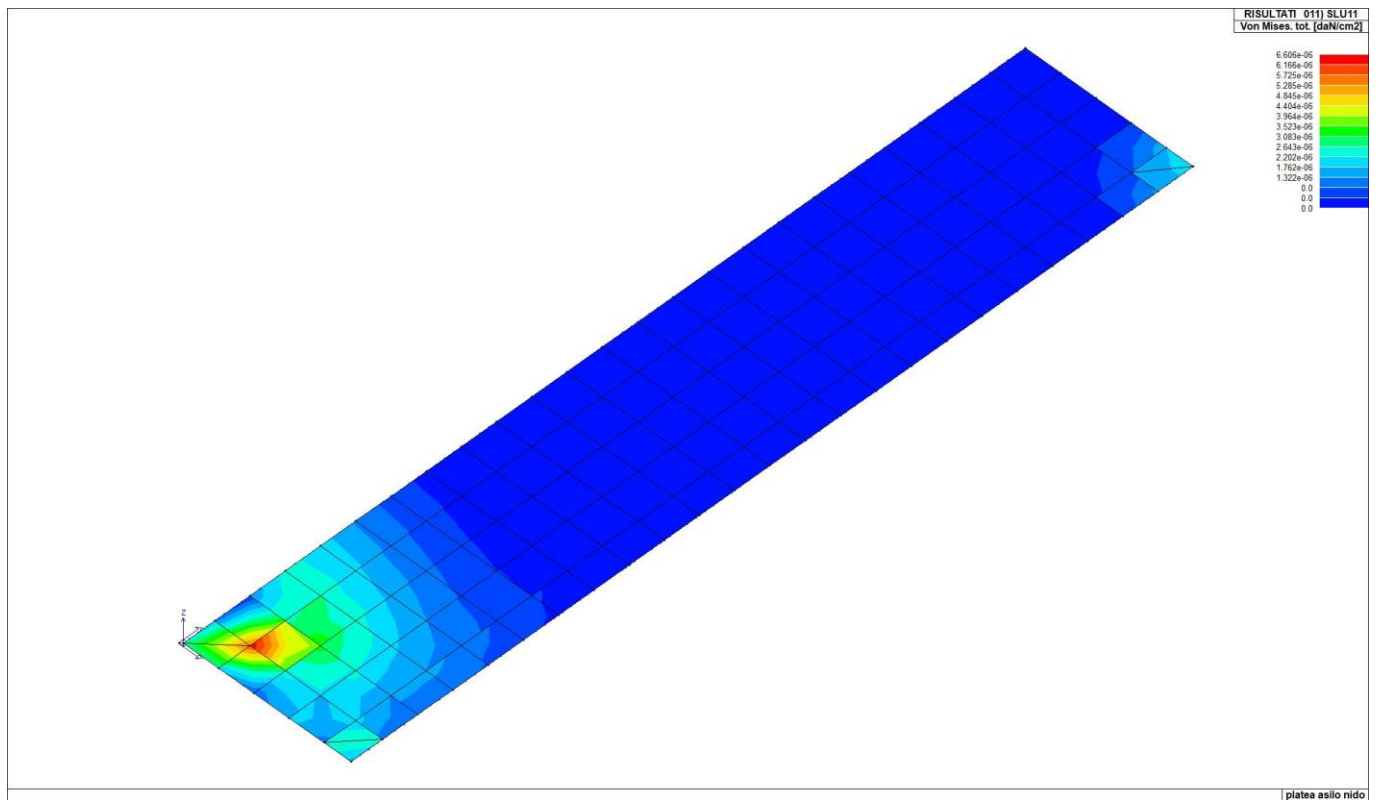
		142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	45	117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116	10	118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		144	0.0	0.0	0.0	0.0	0.0	0.0	-1.12e-06	0.0	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.30e-06	0.0	0.0
116	11	118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.12e-06	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.30e-06	0.0	0.0
116	45	118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117	10	119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.27e-06	0.0	0.0
		144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.12e-06	0.0	0.0
		145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.64e-06	0.0	-1.03e-06
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.06e-06	0.0	-1.38e-06
117	11	119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.27e-06	0.0	0.0
		144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.12e-06	0.0	0.0
		145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.64e-06	0.0	-1.03e-06
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.06e-06	0.0	-1.38e-06
117	45	119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.09e-06	0.0	0.0
		120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.37e-06	0.0	0.0
118	10	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.97e-06	0.0	-1.32e-06
		145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.67e-06	0.0	-1.01e-06
		146	0.0	0.0	0.0	0.0	0.0	1.48e-06	-2.35e-06	0.0	0.0	-1.84e-06
		121	0.0	0.0	0.0	0.0	0.0	1.45e-06	-3.35e-06	-1.55e-06	0.0	-2.32e-06
118	11	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.97e-06	0.0	-1.32e-06
		145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.67e-06	0.0	-1.01e-06
		146	0.0	0.0	0.0	0.0	0.0	1.48e-06	-2.35e-06	0.0	0.0	-1.84e-06
		121	0.0	0.0	0.0	0.0	0.0	1.45e-06	-3.35e-06	-1.55e-06	0.0	-2.32e-06
118	45	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.32e-06	0.0	0.0
		145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.12e-06	0.0	0.0
		146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.56e-06	0.0	-1.22e-06
		121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.23e-06	-1.03e-06	0.0
119	10	121	0.0	0.0	0.0	0.0	0.0	0.0	1.54e-06	-3.09e-06	-1.38e-06	0.0
		146	0.0	0.0	0.0	0.0	0.0	0.0	1.31e-06	-2.73e-06	0.0	-1.30e-06
		147	0.0	0.0	0.0	0.0	0.0	0.0	3.98e-06	-2.78e-06	0.0	-3.37e-06
		122	0.0	0.0	0.0	0.0	0.0	0.0	2.66e-06	-5.80e-06	-3.63e-06	0.0
119	11	121	0.0	0.0	0.0	0.0	0.0	0.0	1.54e-06	-3.09e-06	-1.38e-06	0.0
		146	0.0	0.0	0.0	0.0	0.0	0.0	1.31e-06	-2.73e-06	0.0	-1.30e-06
		147	0.0	0.0	0.0	0.0	0.0	0.0	3.98e-06	-2.78e-06	0.0	-3.37e-06
		122	0.0	0.0	0.0	0.0	0.0	0.0	2.66e-06	-5.80e-06	-3.63e-06	0.0
119	45	121	0.0	0.0	0.0	0.0	0.0	0.0	1.03e-06	-2.06e-06	0.0	0.0
		146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.82e-06	0.0	-1.29e-06
		147	0.0	0.0	0.0	0.0	0.0	0.0	2.65e-06	-1.85e-06	0.0	-2.25e-06
		122	0.0	0.0	0.0	0.0	0.0	0.0	1.77e-06	-3.87e-06	-2.42e-06	0.0
120	10	122	0.0	0.0	0.0	0.0	0.0	0.0	6.25e-06	-5.99e-06	-3.86e-06	4.12e-06
		147	0.0	0.0	0.0	0.0	0.0	0.0	2.77e-06	-7.49e-06	0.0	-4.26e-06
		148	0.0	0.0	0.0	0.0	0.0	0.0	1.76e-06	0.0	1.42e-06	1.62e-05
		123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.07e-05	-9.88e-06	0.0
120	11	122	0.0	0.0	0.0	0.0	0.0	0.0	6.25e-06	-5.99e-06	-3.86e-06	4.12e-06
		147	0.0	0.0	0.0	0.0	0.0	0.0	2.77e-06	-7.49e-06	0.0	-4.26e-06
		148	0.0	0.0	0.0	0.0	0.0	0.0	1.76e-06	0.0	1.42e-06	1.62e-05
		123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.07e-05	-9.88e-06	0.0
120	45	122	0.0	0.0	0.0	0.0	0.0	0.0	4.17e-06	-3.99e-06	-2.58e-06	2.75e-06
		147	0.0	0.0	0.0	0.0	0.0	0.0	1.84e-06	-5.00e-06	0.0	-2.84e-06
		148	0.0	0.0	0.0	0.0	0.0	0.0	1.17e-05	0.0	0.0	1.08e-05
		123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-7.16e-06	-6.59e-06	0.0
121	10	123	0.0	0.0	0.0	0.0	0.0	0.0	4.36e-05	-2.20e-05	-1.61e-05	3.76e-05
		148	0.0	0.0	0.0	0.0	0.0	0.0	9.06e-06	-5.30e-05	-2.76e-06	-4.12e-05
		149	1.42e-06	0.0	0.0	0.0	0.0	0.0	1.52e-04	9.08e-06	1.14e-05	1.50e-04
		124	0.0	0.0	0.0	0.0	0.0	0.0	-3.99e-06	-7.15e-05	-3.76e-05	-3.79e-05
121	11	123	0.0	0.0	0.0	0.0	0.0	0.0	4.36e-05	-2.20e-05	-1.61e-05	3.76e-05
		148	0.0	0.0	0.0	0.0	0.0	0.0	9.06e-06	-5.30e-05	-2.76e-06	-4.12e-05
		149	1.42e-06	0.0	0.0	0.0	0.0	0.0	1.52e-04	9.08e-06	1.14e-05	1.50e-04
		124	0.0	0.0	0.0	0.0	0.0	0.0	-3.99e-06	-7.15e-05	-3.76e-05	-3.79e-05
121	45	123	0.0	0.0	0.0	0.0	0.0	0.0	2.90e-05	-1.47e-05	-1.07e-05	2.51e-05
		148	0.0	0.0	0.0	0.0	0.0	0.0	6.04e-06	-3.53e-05	-1.84e-06	-2.74e-05

		149	0.0	0.0	0.0	0.0	0.0	0.0	1.01e-04	6.05e-06	7.58e-06	9.99e-05	1.20e-05
		124	0.0	0.0	0.0	0.0	0.0	0.0	-2.66e-06	-4.77e-05	-2.50e-05	-2.53e-05	2.25e-05
122	10	124	1.39e-06	0.0	0.0	0.0	0.0	0.0	8.22e-05	-8.45e-05	6.98e-05	-7.22e-05	4.37e-05
		149	1.38e-06	0.0	0.0	0.0	0.0	0.0	1.21e-04	-3.81e-05	7.97e-05	3.51e-06	7.00e-05
		150	1.99e-06	0.0	0.0	0.0	0.0	0.0	1.08e-04	-1.31e-04	1.00e-04	-1.23e-04	4.29e-05
122	11	124	1.39e-06	0.0	0.0	0.0	0.0	0.0	8.22e-05	-8.45e-05	6.98e-05	-7.22e-05	4.37e-05
		149	1.38e-06	0.0	0.0	0.0	0.0	0.0	1.21e-04	-3.81e-05	7.97e-05	3.51e-06	7.00e-05
		150	1.99e-06	0.0	0.0	0.0	0.0	0.0	1.08e-04	-1.31e-04	1.00e-04	-1.23e-04	4.29e-05
122	45	124	0.0	0.0	0.0	0.0	0.0	0.0	5.48e-05	-5.64e-05	4.66e-05	-4.81e-05	2.91e-05
		149	0.0	0.0	0.0	0.0	0.0	0.0	8.09e-05	-2.54e-05	5.31e-05	2.34e-06	4.67e-05
		150	1.33e-06	0.0	0.0	0.0	0.0	0.0	7.22e-05	-8.71e-05	6.69e-05	-8.17e-05	2.86e-05
123	10	125	1.76e-06	0.0	0.0	0.0	0.0	0.0	1.67e-04	-2.88e-05	-2.01e-05	1.59e-04	4.05e-05
		124	1.38e-06	0.0	0.0	0.0	0.0	0.0	8.59e-05	-8.04e-05	-7.74e-05	8.29e-05	-2.22e-05
		150	1.98e-06	0.0	0.0	0.0	0.0	0.0	1.07e-04	-1.31e-04	-1.27e-04	1.03e-04	-3.07e-05
123	11	125	1.76e-06	0.0	0.0	0.0	0.0	0.0	1.67e-04	-2.88e-05	-2.01e-05	1.59e-04	4.05e-05
		124	1.38e-06	0.0	0.0	0.0	0.0	0.0	8.59e-05	-8.04e-05	-7.74e-05	8.29e-05	-2.22e-05
		150	1.98e-06	0.0	0.0	0.0	0.0	0.0	1.07e-04	-1.31e-04	-1.27e-04	1.03e-04	-3.07e-05
123	45	125	1.17e-06	0.0	0.0	0.0	0.0	0.0	1.12e-04	-1.92e-05	-1.34e-05	1.06e-04	2.70e-05
		124	0.0	0.0	0.0	0.0	0.0	0.0	5.73e-05	-5.36e-05	-5.16e-05	5.53e-05	-1.48e-05
		150	1.32e-06	0.0	0.0	0.0	0.0	0.0	7.13e-05	-8.71e-05	-8.44e-05	6.86e-05	-2.05e-05

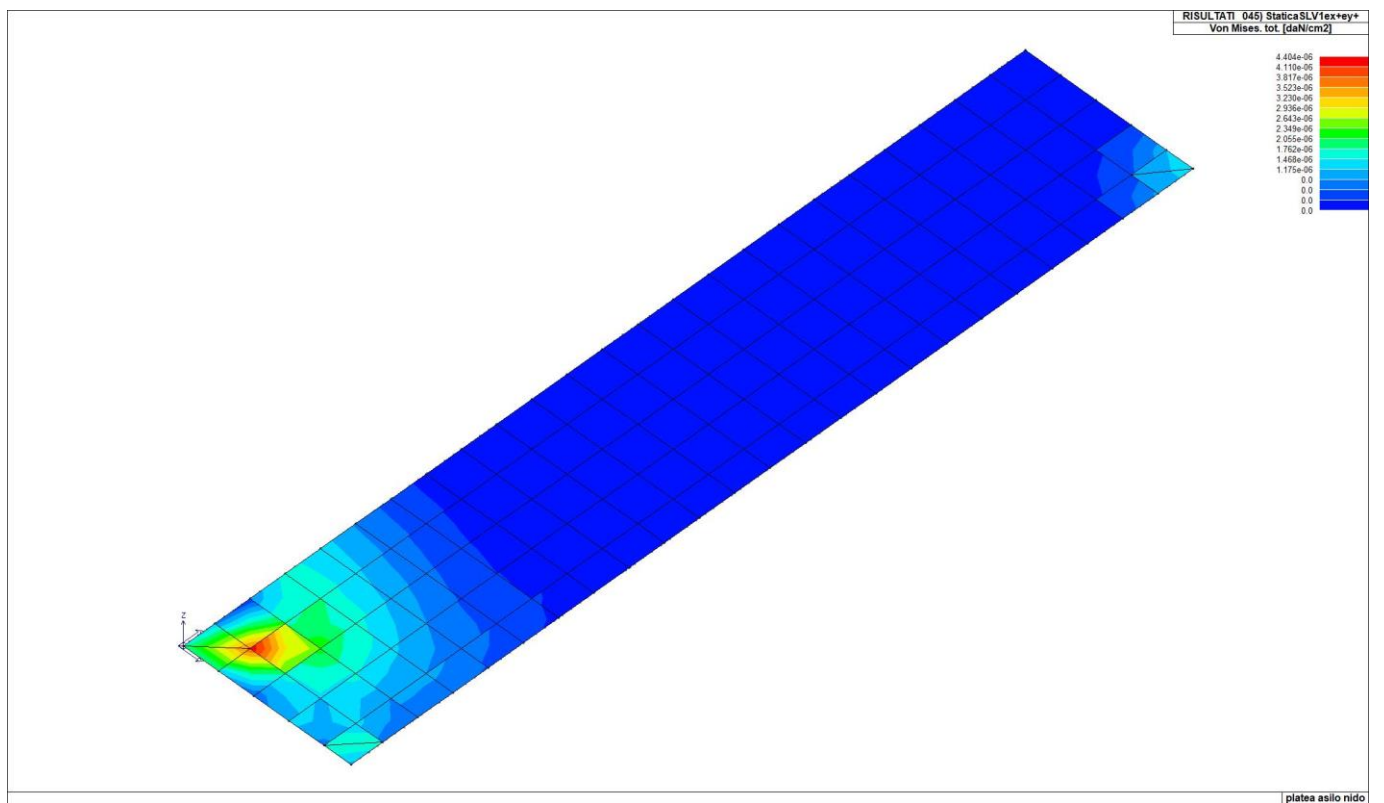
Elem.	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
	6.61e-06	0.0	0.0	0.0	0.0	0.0	7.87e-04	-3.32e-04	-2.11e-04	-2.74e-04	-2.23e-04



44_RIS_VONMISES_010_SLU10



44_RIS_VONMISES_011_SLU11



44_RIS_VONMISES_045_StaticaSLV1ex+ey+