

ASSE VIARIO MARCHE – UMBRIA E QUADRILATERO DI PENETRAZIONE INTERNA MAXI LOTTO 2

LAVORI DI COMPLETAMENTO DELLA DIRETTRICE PERUGIA ANCONA:
SS. 318 DI “VALFABBRICA”. TRATTO PIANELLO – VALFABBRICA
SS. 76 “VAL D’ESINO”. TRATTI FOSSATO VICO – CANCELLI E ALBACINA – SERRA SAN QUIRICO
“PEDEMONTANA DELLE MARCHE”, TRATTO FABRIANO – MUCCIA – SFERZIA

PERIZIA DI VARIANTE

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<p>PROGETTAZIONE Partecipazioni Italia S.p.A.</p> <p>IL PROGETTISTA Dott. Ing. Salvatore Lieto Ordine degli Ingegneri Prov. di Mantova n.1147</p> <p>IL GEOLOGO Geol. Amedeo Babbini Ordine dei Geologi Regione Toscana n.1032</p>	<p>ASSISTENZA ALLA PROGETTAZIONE</p>  <p>IL PROGETTISTA Ing. Valter Capata</p>	
<p>VISTO IL RESPONSABILE DEL PROCEDIMENTO</p> <p>Ing. Iginio Farotti</p>	<p>IL COORDINATORE DELLA SICUREZZA IN FASE DI ESECUZIONE</p> <p>Ing. Vincenzo Pardo</p>	<p>IL DIRETTORE DEI LAVORI</p> <p>Ing. Peppino Marascio</p>

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud
4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

OPERE D'ARTE MINORI

Paratia con paramento sottoscarpa in SX da 6+937.00 a 6+963.00
Relazione tecnica e di calcolo

SCALA:

DATA:

Luglio 2022

Codice Unico di Progetto (CUP) F12C03000050021 (Assegnato CIPE 20.04.2015)

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Codice Elaborato:	L 0 7 0 3	2 1 3	E	1 6	M U 0 0 2 6	R E L	0 1	D

REV.	DATA	DESCRIZIONE	Redatto	Controllato	Approvato
A	Settembre 2020	Emissione PE	Progin	M.Tartaglia	S.Lieto
B	Maggio 2021	Emissione PED	SGS	C.Agostini	V. Capata
C	Gennaio 2022	Emissione a seguito istruttoria ANAS del 22.12.2021	SGS	C.Agostini	V. Capata
D	Luglio 2022	Emissione a seguito istruttoria ANAS del 18.07.2022	SGS	C.Agostini	V.Capata

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1. GENERALITÀ

Il presente documento costituisce la relazione di calcolo del Progetto Esecutivo di Dettaglio (PED) delle opere geotecniche di contenimento previste nell'ambito dei lavori di completamento degli stralci funzionale 3-4 del tratto della Pedemontana delle Marche.

La redazione del Progetto Esecutivo di Dettaglio ha lo scopo di ottimizzare, laddove possibile, le opere geotecniche oggetto del Progetto Esecutivo. A tal fine, sono state prese a riferimento per la ottimizzazione le valutazioni e le caratterizzazioni idrogeologiche, geotecniche e sismiche dei siti in esame presenti nel Progetto Esecutivo.

I calcoli e le verifiche di sicurezza sono stati invece adattati alle nuove soluzioni progettuali proposte in conformità alle norme NTC 2008.

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2. DOCUMENTI DI RIFERIMENTO

Nella redazione del progetto esecutivo di dettaglio si è fatto riferimento ai seguenti documenti.

2.1 DOCUMENTI DI PROGETTO

- L0703213E01000000REL01D - Relazione tecnica generale
- L0703213E02GE0000REL01C - Relazione geologica, geomorfologica e geoidrologica generale
- L03213E02GE0001REL01D - Relazione geotecnica generale sulle opere all'aperto e gallerie artificiali
- L0703213E04000000REL01D - Relazione sismica
- LO703213E02GE0000PRF05C – Profilo geologico
- LO703213E02GE0001PRF05D – Profilo geotecnico

2.2 NORMATIVE DI RIFERIMENTO

Nella redazione del progetto esecutivo si è fatto riferimento ai seguenti documenti normativi.

- D.M. 14/01/2008 *“Norme tecniche per le costruzioni” (NTC08)*.
- Circolare del 02/02/2009. *Istruzioni per l'applicazione delle “Norme tecniche per le costruzioni” di cui al D.M. del 14/01/2008.*
- UNI EN1990 *EUROCODICE 0 – Criteri generali di progettazione strutturale.*
- UNI EN1991 *EUROCODICE 1 – Azioni sulle strutture*
- UNI EN1992-1-1 *EUROCODICE 2, parte 1-1 Progettazione delle strutture in calcestruzzo. Parte 1-1: Regole generali e regole per gli edifici.*
- UNI EN 1997-1. *EUROCODICE 7, parte 1. Progettazione geotecnica. Parte 1: Regole generali*
- UNI EN 1998-5. *EUROCODICE 8, parte 5. Progettazione delle strutture per la resistenza sismica. Parte 5: Fondazioni, strutture di contenimento ed aspetti geotecnici.*

2.3 SOFTWARE

GeoStru 2021 - www.geostru.eu

RC-Sec (GeoStru – 2021) - www.geostru.eu

PARATIE PLUS – versione 2021 – Harpaceas – www.harpaceas.it

2.1.3 PEDEMONTANA DELLE MARCHE**3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud****4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia**

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3. DESCRIZIONE DELL' OPERA

Le analisi e verifiche nel seguito esposte fanno in particolare riferimento all' opera di sostegno MU26 situata in SX dell'asse stradale, dal km 6+937 al km 6+963, per uno sviluppo totale di circa 26m.

Nell'ambito del Progetto Esecutivo di Dettaglio (PED), l'ottimizzazione dell'opera in oggetto prevede la realizzazione di muri di sostegno su paratia di pali $\phi 1500$ interasse 1.7m, ed il prolungamento della scarpata costituente il rilevato stradale siano alle quote del piano campagna. I tratti di applicazione dei due tipi di intervento dipendono dall'altezza del paramento del muro e, quindi, della scarpata a tergo da sostenere.

In particolare:

- 1) Da pk 6+936 a pk 6+945 circa il muro ha altezza del paramento pari a 3.20m ed è fondato su pali $\phi 1500$ ad interasse 1.7m;
- 2) Da pk 9+945 fino a fine opera si prevede il prolungamento della scarpata fino a raccordarsi con il piano campagna.

In Figura 1, Figura 2, Figura 3 e Figura 4 sono rappresentate pianta, profilo e sezioni tipo dell'opera rispettivamente.

Per ulteriori dettagli agli elaborati grafici di riferimento (LO703213E16MU0026CRP01C e LO703213E16MU0026TVI03A).

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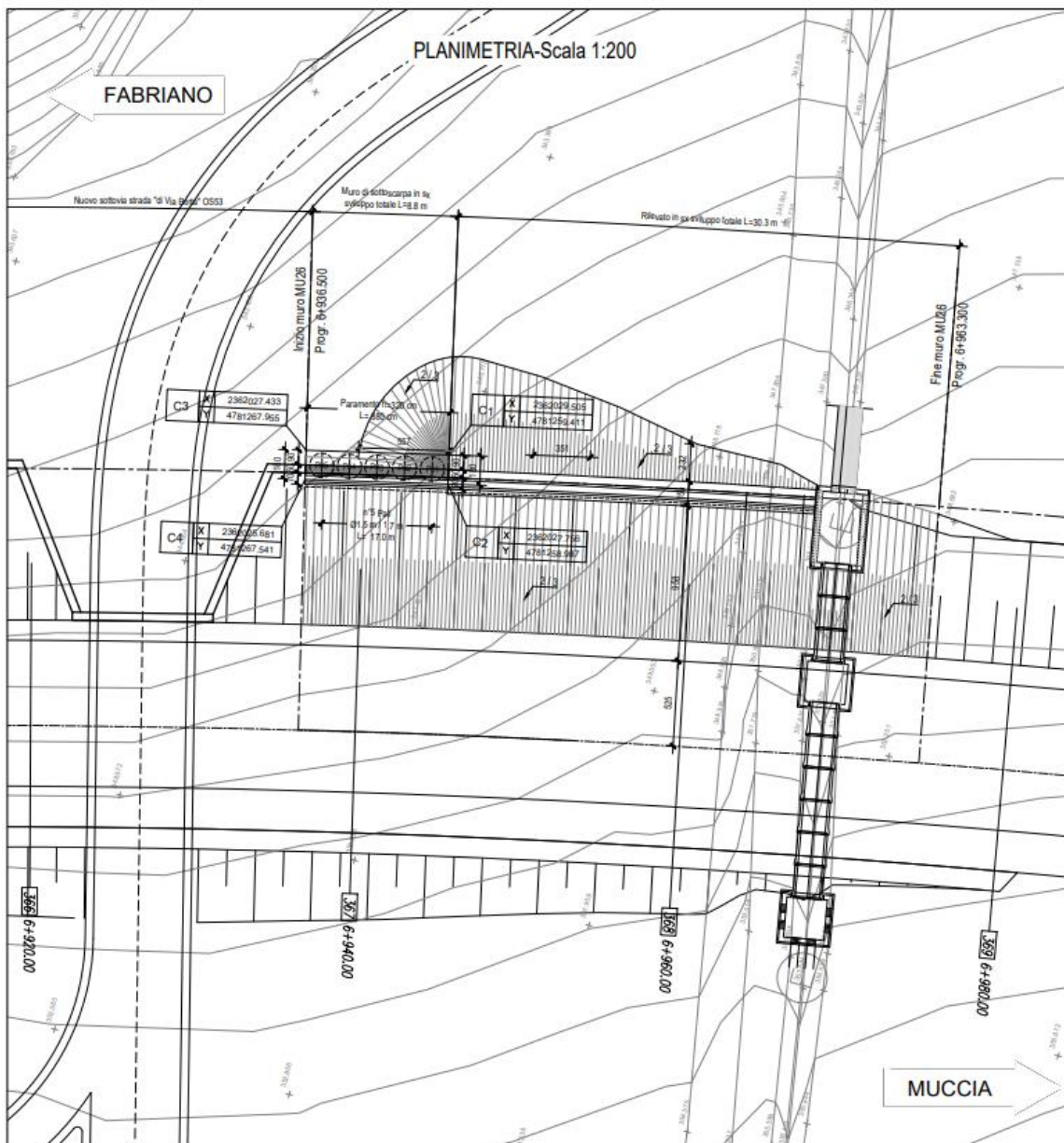


Figura 1 – Pianta dell'intervento

2.1.3 PEDEMONTANA DELLE MARCHE

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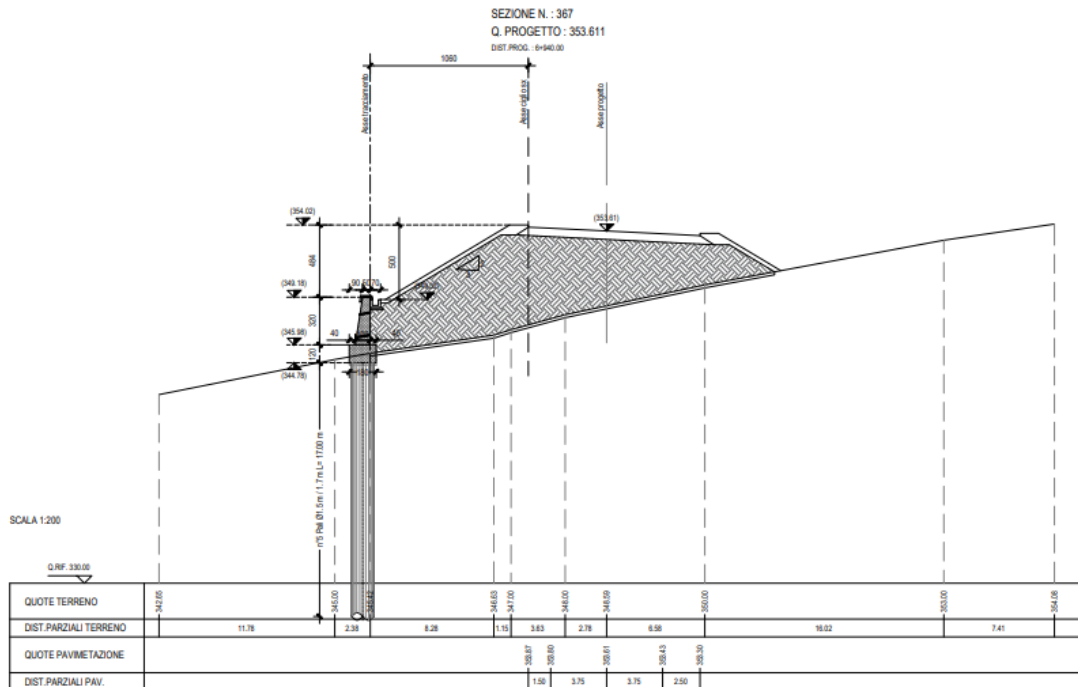


Figura 3 – Sezione tipo paratia

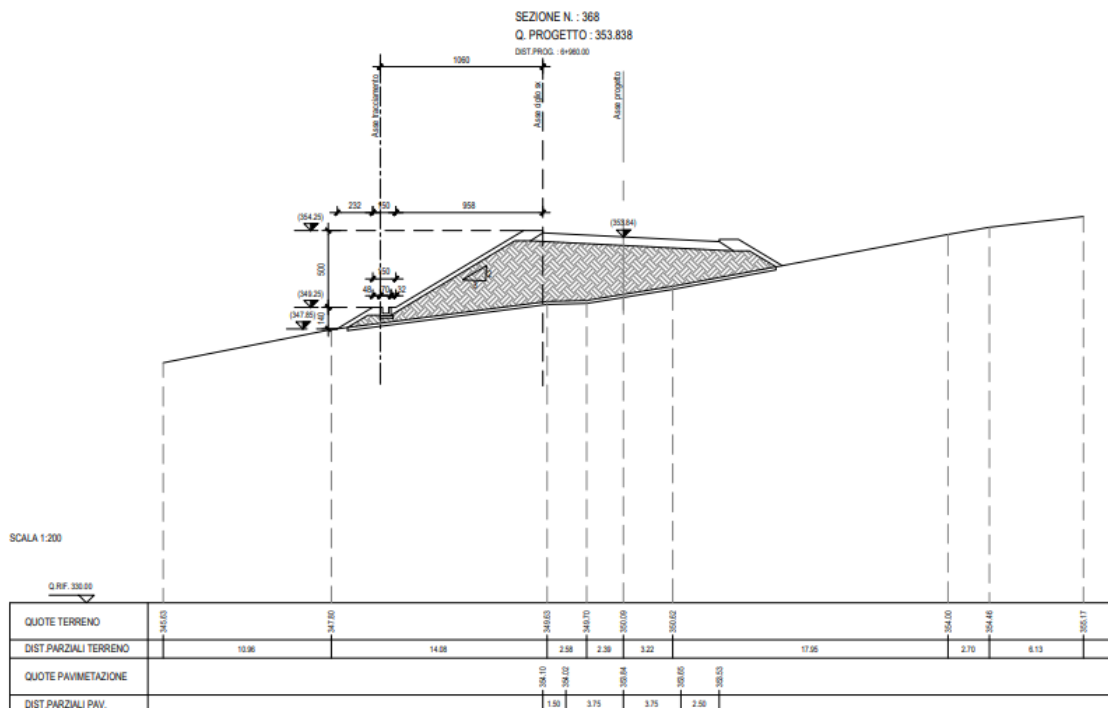


Figura 4 - Sezione tipo scarpata

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4. CARATTERISTICHE DEI MATERIALI

4.1 CALCESTRUZZO PER PALI E CORDOLO

Per i getti in opera è stato considerato un calcestruzzo di classe C32/40 ($R_{ck}=40\text{MPa}$ a 28 gg), le cui proprietà meccaniche sono:

- Resistenza caratteristica cubica a compressione 28 gg: $R_{ck} = 40 \text{ MPa}$
- Resistenza caratteristica cilindrica a compressione 28 gg $f_{ck} = 0.83 \cdot R_{ck} = 32 \text{ MPa}$
- Resistenza media cilindrica a compressione: $f_{cm} = f_{ck} + 8 = 40 \text{ MPa}$
- Resistenza media a trazione semplice (assiale): $f_{ctm} = 0.3 \cdot f_{ck}^{2/3} = 3.02 \text{ Mpa}$
- Resistenza caratteristica corrispondente al frattile 5%: $f_{ctk,0.05} = 0.7 \cdot f_{ctm} = 2.12 \text{ MPa}$
- Modulo elastico $E_{cm} = 22 \cdot (f_{cm}/10)^{0.3} = 33 \text{ GPa}$
- Rapporto massimo acqua/cemento: $A/C \leq 0.50$
- Classe di esposizione ambientale: $XA2$

I valori delle resistenze di progetto sono ottenuti applicando i seguenti fattori di sicurezza:

- Coefficiente parziale di sicurezza relativo al calcestruzzo: $\gamma_c = 1.5$
- Coefficiente riduttivo per la resistenza di lunga durata: $\alpha_{cc} = 0.85$

Resistenza di progetto allo SLU

- Resistenza di calcolo a compressione: $f_{cd} = \alpha_{cc} \cdot f_{ck} / \gamma_c = 18.1 \text{ MPa}$
- Resistenza di calcolo a trazione: $f_{ctd} = f_{ctk,0.05} / \gamma_c = 1.41 \text{ MPa}$

Resistenza di progetto allo SLE

- Tensione limite in comb. caratteristica (rara) $\sigma_{c,r} = 0.6 \cdot f_{ck} = 19.2 \text{ MPa}$
- Tensione limite in comb. quasi permanente $\sigma_{c,qp} = 0.45 \cdot f_{ck} = 14.4 \text{ MPa}$
- Tensione limite fessurazione (trazione) $\sigma_t = f_{ctm} / 1.2 = 2.52 \text{ Mpa}$

4.2 CALCESTRUZZO PER PARAMENTO

Per i getti in opera è stato considerato un calcestruzzo di classe C25/30 ($R_{ck}=30\text{MPa}$ a 28 gg), le cui proprietà meccaniche sono:

- Resistenza caratteristica cubica a compressione 28 gg: $R_{ck} = 30 \text{ MPa}$
- Resistenza caratteristica cilindrica a compressione 28 gg $f_{ck} = 0.83 \cdot R_{ck} = 25 \text{ MPa}$
- Resistenza media cilindrica a compressione: $f_{cm} = f_{ck} + 8 = 32.9 \text{ MPa}$
- Resistenza media a trazione semplice (assiale): $f_{ctm} = 0.3 \cdot f_{ck}^{2/3} = 2.56 \text{ MPa}$
- Resistenza caratteristica corrispondente al frattile 5%: $f_{ctk,0.05} = 0.7 \cdot f_{ctm} = 1.79 \text{ MPa}$
- Modulo elastico $E_{cm} = 22 \cdot (f_{cm}/10)^{0.3} = 31447 \text{ MPa}$
- Rapporto massimo acqua/cemento: $A/C \leq 0.50$
- Classe di esposizione ambientale: $XC2$

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I valori delle resistenze di progetto sono ottenuti applicando i seguenti fattori di sicurezza:

- Coefficiente parziale di sicurezza relativo al calcestruzzo: $\gamma_c = 1.5$
- Coefficiente riduttivo per la resistenza di lunga durata: $\alpha_{cc} = 0.85$

Resistenza di progetto allo SLU

- Resistenza di calcolo a compressione: $f_{cd} = \alpha_{cc} \cdot f_{ck} / \gamma_c = 14.1 \text{ MPa}$
- Resistenza di calcolo a trazione: $f_{ctd} = f_{ctk,0.05} / \gamma_c = 1.19 \text{ MPa}$

Resistenza di progetto allo SLE

- Tensione limite in comb. caratteristica (rara) $\sigma_{c,r} = 0.6 \cdot f_{ck} = 14.9 \text{ MPa}$
- Tensione limite in comb. quasi permanente $\sigma_{c,qp} = 0.45 \cdot f_{ck} = 11.2 \text{ MPa}$
- Tensione limite fessurazione (trazione) $\sigma_t = f_{ctm} / 1.2 = 2.13 \text{ MPa}$

4.3 ACCIAIO PER BARRE DI ARMATURA

Per le barre di armatura è stato considerato un acciaio del tipo B450C, le cui caratteristiche di resistenza sono:

- Tensione caratteristica di snervamento: $f_{yk} \geq 450 \text{ MPa}$
- Tensione caratteristica di rottura: $f_{tk} \geq 540 \text{ MPa}$
- Rapporto $(f_t/f_y)_k$: $1.15 \leq (f_t/f_y)_k < 1.35$
- Limite sup. resistenza caratteristica di snervamento: $f_{yk}/(450\text{MPa}) \leq 1.25$
- Allungamento: $(A_{gt})_k \geq 7.5\%$

Il valore della resistenza di progetto è ottenuto applicando un fattore di sicurezza pari a:

- Coefficiente parziale di sicurezza relativo all'acciaio: $\gamma_s = 1.15$

Resistenza di progetto allo SLU

- Resistenza di calcolo dell'acciaio: $f_{yd} = f_{yk} / \gamma_s = 450 / 1.15 = 391 \text{ MPa}$

Resistenza di progetto allo SLE

- Tensione massima acciaio $\sigma_s = 0.8 f_{yk} = 360 \text{ MPa}$

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5. MODELLO GEOTECNICO DI RIFERIMENTO

Nel presente paragrafo si riporta la caratterizzazione geotecnica specifica per l'opera in esame. Per dettagli si rimanda alla Relazione Geotecnica Generale. Si sottolinea, comunque, che mediamente il profilo stratigrafico presenta uno strato superficiale, di spessore massimo pari a 9m circa, costituito da depositi alluvionali limoso argillosi. Al di sotto di tale strato è presente una fascia, di spessore ridotto, di terreni argillosi/marnosi che sovrasta la formazione di base (Formazione di Camerino) costituita da materiali arenacei e pelitico/marnosi.

Analizzando il profilo geologico geotecnico, con riferimento ai tratti di ubicazione dell'opera di sostegno oggetto di dimensionamento, è possibile dunque assumere cautelativamente, la seguente configurazione stratigrafica:

Tabella 1 - Stratigrafia di riferimento OS9

Unità geotecnica	Profondità dal piano campagna [m da p.c.]	Descrizione
Ala	0 ÷ 9.0	Depositi alluvionali limoso argillosi
Salt	0 ÷ 10.5	Substrato alternato argilloso/marnoso
Pa	>10.5	Substrato pellico arenaceo

5.1 LIVELLO DELLA FALDA

La falda è riscontrata a profondità variabili. Nelle analisi si assume cautelativamente un livello di falda prossima ad una profondità di 2 metri dal piano campagna.

5.2 CARATTERIZZAZIONE GEOTECNICA

I parametri geotecnici considerati per l'opera in esame sono riportati nella seguente tabella e fanno riferimento alla caratterizzazione presentata in relazione L03213E02GE0001RELO1D.

Nella tabella seguente sono riassunti i parametri geotecnici utilizzati nelle analisi.

Tabella 2 - Parametri geotecnici terreno in sito

Unità	γ [kN/m ³]	ϕ' [°]	c' [kPa]	E [MPa]	ν [-]
Ala	19	25	2	20	0.2
Salt	20.5	27	10	75	0.2
Pa	22.5	27	50	135	0.2

Per il rilevato a tergo del paramento vengono assunti i seguenti parametri caratteristici:

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Tabella 3 –Parametri geotecnici rilevato

Unità	γ [kN/m ³]	φ' [°]	c' [kPa]
Rilevato	19	35	0

γ = peso dell'unità di volume

φ' = angolo di resistenza al taglio

c' = coesione drenata

E = modulo elastico

ν = Modulo poisson

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6. CARATTERIZZAZIONE SISMICA

Per la caratterizzazione sismica del sito si rimanda alle considerazioni presenti nella relazione sismica (L0703213E04000000REL01D).

Di seguito si riportano i parametri di progetto adottati per le verifiche della stabilità dell'opera in caso di azione sismica.

Tabella 4 – Periodo di riferimento azione sismica

Vita nominale V_N	Classe d'uso	Coefficiente d'uso	Periodo di riferimento V_R
50	III	1.5	75

Tabella 5 - Accelerazione (a_g), fattore (F_0) e periodo (T^*_c)

V_R [anni]	Stato Limite	PV_R -	T_R [anni]	a_g [g]	F_0 [-]	T_c [s]
75	SLO	81%	45	0.078	2.440	0.285
	SLD	63%	75	0.097	2.433	0.295
	SLV	10%	712	0.220	2.544	0.333
	SLC	5%	1462	0.277	2.584	0.343

Lo spettro di risposta elastico per la descrizione della componente orizzontale del moto sismico è infine costruito a partire dai parametri seguenti.

Tabella 6 – Caratterizzazione sito

Categoria di sottosuolo	Categoria topografica	S_s , fattore stratigrafico	S_t , fattore topografico
C	T1	1.365	1.0

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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7. VERIFICHE GEOTECNICHE E STRUTTURALI

Di seguito si riassumono le verifiche condotte per la stabilità globale dell'opera in esame e le verifiche strutturali della paratia.

7.1 VERIFICHE GEOTECNICHE

7.1.1 STABILITA' GLOBALE

La verifica di stabilità globale del complesso opera di sostegno-terrapieno è condotta mediante l'ausilio del programma di calcolo SLOPE STABILITY ANALYSIS di Geostru.

Per la verifica si fa riferimento al metodo dell'equilibrio limite di Bishop.

Per ulteriori approfondimenti teorici sul metodo di calcolo si rimanda all'Allegato A.

7.1.2 STABILITA' PARATIA

La verifica di stabilità dell'opera di sostegno è condotta mediante l'ausilio del programma PARATIE PLUS.

7.1.3 VERIFICA CAPACITA' PORTANTE PALI

Le verifiche di capacità portante dei pali vengono svolte secondo la metodologia degli stati limite ultimi, in accordo alla normativa vigente (DM 14/01/2008. "Norme tecniche per le costruzioni"). La verifica della capacità portante dei pali è soddisfatta se:

$$F_{cd} < R_{cd}$$

essendo

$$R_{cd} = R_k / \gamma_R$$

dove:

F_{cd} = carico assiale di compressione di progetto;

R_{cd} = capacità portante di progetto nei confronti dei carichi assiali;

R_k = valore caratteristico della capacità portante limite del palo.

La portata di progetto di un palo trivellato (eseguito con completa asportazione del terreno) "Qd" può essere espressa dalla seguente relazione:

$$Q_d = \frac{Q_{ll}}{F_{SL}} + \frac{Q_{bl}}{F_{SB}} - W'p$$

dove:

Q_{ll} = portata laterale limite,

Q_{bl} = portata di base limite,

$W'p$ = peso efficace del palo (al netto del peso del terreno asportato: peso calcestruzzo-peso terreno),

F_{SL} = fattore di sicurezza per la portata laterale a compressione ($=\xi_3 \cdot \gamma_s$).

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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FSB = fattore di sicurezza per la portata di base ($=\xi_3 \cdot Y_b$).

Portata laterale

La portata laterale limite viene valutata con la seguente relazione:

$$Q_{Ll} = \pi \cdot D \cdot \sum_i (\tau_i \cdot h_i)$$

dove:

D = diametro palo,

τ_i = tensione di adesione laterale limite nello strato i-esimo,

h_i = altezza dello strato i-esimo.

La tensione tangenziale ultima lungo il fusto del palo, in accordo ad esempio a Burland [1973], Reese & O'Neill [1988], Chen & Kulhawy [1994], O'Neill & Hassan [1994], può essere valutata con riferimento alla seguente espressione:

$$\tau_i = \beta \cdot \sigma_v' \leq \tau_{l,max}$$

dove:

σ_v' = tensione verticale efficace litostatica,

$\tau_{l,max}$ = valore massimo dell'adesione laterale limite palo-terreno (pari a 150 kPa per terreni incoerenti).

β = coefficiente empirico $\beta = k \cdot \tan \varphi$ essendo

k = coefficiente di pressione laterale = 0.6 a compressione e 0.5 a trazione;

φ = angolo di resistenza al taglio.

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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7.2 VERIFICHE STRUTTURALI DELLE SEZIONI IN C.A.

Le verifiche delle sezioni in c.a. dei pali della paratia sono state condotte per mezzo del codice RC-Sec (GeoStru – 2021). Le sollecitazioni sulla paratia sono ricavate, in condizioni SLE, SLU ed SLV, dal calcolo svolto con il codice Paratie plus.

7.2.1 STATO LIMITE ULTIMO

La determinazione della capacità resistente della sezione del palo viene effettuata con i criteri di cui al punto 4.1.2.3 delle NTC08 per le seguenti sollecitazioni:

- Pressoflessione (rif. formule al punto 4.1.2.1.2.4 delle NTC 2008);
- Taglio per elementi con armature trasversali (rif. formule al punto 4.1.2.1.3 delle NTC 2008).

7.2.2 STATO LIMITE ESERCIZIO

La verifica nei confronti degli Stati limite di esercizio, consiste nel controllare, con riferimento alle Combinazioni di Calcolo allo SLE, il tasso di Lavoro nei materiali e l'ampiezza delle fessure nel calcestruzzo attesa, secondo quanto di seguito specificato:

- Verifica delle tensioni nel calcestruzzo e acciaio sotto combinazione di carico quasi permanente e rara (ref. punto 4.1.2.2.4.1 delle NTC 2008)

$$\sigma_{c,r} = 0.6 \cdot f_{ck} = 19.2 \text{ MPa} \quad \text{tensione limite calcestruzzo in comb. rara}$$

$$\sigma_{c,qp} = 0.45 \cdot f_{ck} = 14.4 \text{ MPa} \quad \text{tensione limite calcestruzzo in comb. qp}$$

$$\sigma_s = 0.8 f_{yk} = 360 \text{ MPa} \quad \text{tensione limite acciaio}$$

- Verifica a fessurazione calcestruzzo sotto combinazione di carico frequente e combinazione quasi permanente (ref. punto 4.1.2.2.4.2 e Tab. 4.1.IV delle NTC 2008)

Condizioni Ambientali: Ordinarie

Armature: Poco Sensibili

$w < 0.2 \text{ mm}$ combinazione Quasi permanente

$w < 0.3 \text{ mm}$ combinazione frequente

2.1.3 PEDEMONTANA DELLE MARCHE**3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud****4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia**

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8. STATI LIMITE E COMBINAZIONI DI CALCOLO

8.1 STATO LIMITE ULTIMO

Per le opere in materiali sciolti, come i rilevati, devono essere effettuate le verifiche con riferimento almeno ai seguenti stati limite:

- SLU di tipo geotecnico (GEO) e di equilibrio di corpo rigido per la verifica della stabilità globale e locale dell'opera di sostegno

Per quanto riguarda l'opera di stabilizzazione, costituita da una paratia di pali, si effettuano le verifiche con riferimento ai seguenti stati limite:

- SLU di tipo strutturale (STR) per il raggiungimento della resistenza negli elementi strutturali

Secondo quanto riportato in normativa DM 14-01-2008, la verifica di stabilità globale dell'insieme terreno-opera deve essere effettuata secondo l'Approccio 1:

- Combinazione 2: (A2+M2+R2)

Le rimanenti verifiche devono essere effettuate secondo almeno uno dei seguenti approcci:

Approccio 1:

- Combinazione 1: (A1+M1+R1)
- Combinazione 2: (A2+M2+R2) *

*Per la verifica di portanza dei pali alle azioni verticali la combinazione 2 diventa:

$$(A2+M1+R2)$$

come riportato nella Circolare del 02/02/2009. Istruzioni per l'applicazione delle "Norme tecniche per le costruzioni" di cui al D.M. del 14/01/2008

Approccio 2:

$$(A1+M1+R3)$$

Per le paratie si deve considerare il solo Approccio 1.

La resistenza di progetto a compressione $R_{c,d}$ è calcolata applicando al valore caratteristico della resistenza $R_{c,k}$ i coefficienti parziali γ_R riportati in tabella seguente, relativi alla condizione di pali trivellati. Il valore caratteristico della resistenza $R_{c,k}$ a compressione è ottenuto applicando i fattori di correlazione ξ_3 e ξ_4 (vedasi tabella seguente) alle resistenze di calcolo R_{cal} ; tali fattori sono funzione del numero di verticali d'indagine rappresentative.

Per ogni opera verrà assunto un coefficiente ξ_3 in funzione delle verticali di indagine eseguite. Nella tabella si riassumono i fattori di sicurezza assunti per ciascuna opera d'arte principale.

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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In condizioni sismiche le verifiche di capacità portante dei pali agli stati limite ultimi (SLU) vanno condotte con riferimento all'Approccio 2 (A1+M1+R3), tenendo conto dei coefficienti parziali riportati nella successiva tabella e ponendo i coefficienti parziali sulle azioni tutti pari all'unità.

Tabella 7 Coefficienti parziali γ_R da applicare alle resistenze caratteristiche

Resistenza	Simbolo	Pali infissi			Pali trivellati			Pali ad elica continua		
		(R1)	(R2)	(R3)	(R1)	(R2)	(R3)	(R1)	(R2)	(R3)
Base	γ_b	1,0	1,45	1,15	1,0	1,7	1,35	1,0	1,6	1,3
Laterale in compressione	γ_s	1,0	1,45	1,15	1,0	1,45	1,15	1,0	1,45	1,15
Totale (*)	γ_t	1,0	1,45	1,15	1,0	1,6	1,30	1,0	1,55	1,25
Laterale in trazione	γ_{st}	1,0	1,6	1,25	1,0	1,6	1,25	1,0	1,6	1,25

(*) da applicare alle resistenze caratteristiche dedotte dai risultati di prove di carico di progetto.

$$R_{c,k} = \text{Min} \left\{ \frac{(R_{c,cal})_{media}}{\xi_3}, \frac{(R_{c,cal})_{min}}{\xi_4} \right\}$$

$$R_{t,k} = \text{Min} \left\{ \frac{(R_{t,cal})_{media}}{\xi_3}, \frac{(R_{t,cal})_{min}}{\xi_4} \right\}$$

Tabella 8 Fattori di correlazione ξ per la determinazione della resistenza caratteristica in funzione del numero di verticali di indagine

Numero di verticali indagate	1	2	3	4	5	7	≥ 10
ξ_3	1,70	1,65	1,60	1,55	1,50	1,45	1,40
ξ_4	1,70	1,55	1,48	1,42	1,34	1,28	1,21

I coefficienti per le azioni A, per i parametri geotecnici M e per le resistenze R sono riassunti nelle seguenti tabelle.

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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Tabella 9 – Coefficienti parziali per le azioni SLU

Carichi tipo	Effetto	Coefficiente parziale	A1	A2
Permanenti G1	Favorevole	γ_{G1}	1.0	1.0
	Sfavorevole		1.3	1.0
Permanenti non strutturali G2	Favorevole	γ_{G2}	0.8	0.8
	Sfavorevole		1.5	1.3
Variabili Q	Favorevole	γ_Q	0	0
	Sfavorevole		1.5	1.3

Tabella 10 – Coefficienti parziali per i parametri del terreno SLU

Carichi tipo	Coefficiente parziale	M1	M2
Tangente angolo resistenza al taglio	$\tan \varphi'_k$	1.0	1.25
Coesione efficace	c'_k	1.0	1.25
Resistenza non drenata	c_{uk}	1.0	1.4
Peso unità di volume	γ	1.0	1.0

Tabella 11 – Coefficienti parziali resistenza R2 verifiche di opere in materiali sciolti e fronti di scavo

Verifica	R2
Stabilità globale	$\gamma_R = 1.1$

Tabella 12 – Coefficienti parziali resistenza γ_R per le STR e GEO di muri di sostegno

Verifica	R1	R2	R3
Capacità portante fondazione	$\gamma_R = 1.0$	$\gamma_R = 1.0$	$\gamma_R = 1.4$
Scorrimento	$\gamma_R = 1.0$	$\gamma_R = 1.0$	$\gamma_R = 1.1$
Resistenza terreno valle	$\gamma_R = 1.0$	$\gamma_R = 1.0$	$\gamma_R = 1.4$

In presenza di azioni sismiche, lo stato limite ultimo considerato comprende lo Stato Limite di Salvaguardia della Vita (SLV).

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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I coefficienti parziali sulle azioni e parametri geotecnici sono posti pari all'unità mentre i coefficienti parziali relativi alle resistenze risultano invariati rispetto a quelli considerati per le verifiche in condizioni statiche.

8.2 STATO LIMITE ESERCIZIO

Per le verifiche strutturali allo stato limite di esercizio seguenti coefficienti parziali per le azioni sono stati considerati:

Tabella 13 – Coefficienti parziali per le azioni SLS Freq. e QP

Carichi tipo	Effetto	γ	ψ
Permanenti G1	Sfavorevole	1.0	-
Permanenti G2	Sfavorevole	1.0	-
Variabili Q	Sfavorevole	1.0	-

Tabella 14 – Coefficienti parziali per le azioni SLS Rara

Carichi tipo	Effetto	γ	ψ
Permanenti G1	Sfavorevole	1.0	-
Permanenti G2	Sfavorevole	1.0	-
Traffico Q	Sfavorevole	1.0	0.75

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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9. ANALISI DEI CARICHI

9.1 CARICHI PERMANENTI

Per carichi permanenti si intendono le azioni associate ai pesi propri del palo, del terrapieno spingente e dell'acqua di falda, valutati in automatico dal Software di calcolo utilizzato.

9.2 CARICHI VARIABILI

Lo schema di carico da traffico veicolare considerato nelle analisi è un carico uniformemente distribuito di valore pari a 30 kPa per le scarpate e 40 kPa per il dimensionamento delle paratie.

9.3 AZIONE SISMICA

Per la valutazione degli effetti dell'azione sismica sulle masse e sui coefficienti di spinta del terreno, si è fatto riferimento al metodo pseudo-statico previsto al punto 7.11.3.5.2 - "Metodi di Analisi" - delle NTC2008 secondo il quale, nelle verifiche allo stato limite ultimo, i valori dei coefficienti sismici orizzontale k_h e verticale k_v possono essere valutati mediante le seguenti espressioni:

$$k_h = \beta_s \cdot \frac{a_{max}}{g}$$

$$k_v = \pm 0.5 \cdot k_h$$

dove

a_{max} = accelerazione orizzontale massima attesa al sito

g = accelerazione di gravità.

In assenza di analisi specifiche della risposta sismica locale, l'accelerazione massima può essere valutata con la relazione:

$$a_{max} = S \cdot a_g = S_s \cdot S_t \cdot a_g$$

dove

S = coefficiente che comprende l'effetto dell'amplificazione stratigrafica (S_s) e dell'amplificazione topografica (S_t).

a_g = accelerazione orizzontale massima attesa su sito di riferimento rigido.

Di seguito sono riportati i valori di β_s e β_m considerati per i fronti di scavo (utilizzati nelle analisi globali), e per le paratie, in accordo a quanto indicato nella NTC2008.

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

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Tabella 15 – Coefficienti dell'accelerazione massima attesa al sito – Fronti di scavo e rilevati

	Categoria di sottosuolo	
	A	B, C, D, E
	β_s	β_s
$0.2 < a_g(g) \leq 0.4$	0.3	0.28
$0.1 < a_g(g) \leq 0.2$	0.27	0.24
$a_g(g) \leq 0.1$	0.2	0.2

Nel caso delle paratie, il coefficiente β può essere ricavato, con riferimento al seguente diagramma, in funzione del massimo spostamento u_s che l'opera può subire, che deve risultare:

$$u_s \leq 0.005 H$$

dove H indica la lunghezza complessiva della paratia.

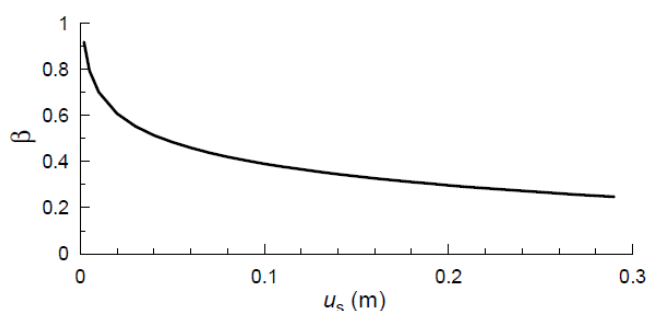


Figura 5 – Diagramma per la valutazione del coefficiente di spostamento β

I parametri di progetto dell'azione sismica considerati nell'analisi dell'opera oggetto della presente relazione sono riassunti nelle tabelle seguenti.

Tabella 16 – Parametri progetto azione sismica equivalente

Ss	S _T	a _g	a _{max}	k _h	k _v
1.365	1.0	0.22g	0.33g	0.084	±0.042

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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10. ANALISI E VERIFICHE

Si riportano di seguito risultati delle analisi e verifiche per le sezioni di calcolo considerate.

10.1 SEZIONI DI CALCOLO

Sono state analizzate due sezioni di calcolo, una riferita alla paratia di pali con paramento di altezza H di sostegno di 3.2m ed una alla scarpata. Il riepilogo delle sezioni analizzate e le progressive di riferimento è riportato nella seguente tabella.

Tabella 17 - Sezioni di calcolo

ID muro	Sezione di calcolo	L pali [m]	Lato stradale	pk
MU26	Paratia	17	SX	6+936
MU26	Scarpata	-	SX	6+960

Di seguito sono sintetizzati i risultati delle analisi eseguite per le sezioni di calcolo analizzate.

Per il dettaglio delle analisi geotecniche e strutturali, fare riferimento agli ALLEGATI A e B rispettivamente.

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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10.2 RISULTATI DELLE ANALISI: SEZIONE 1 – PARATIA

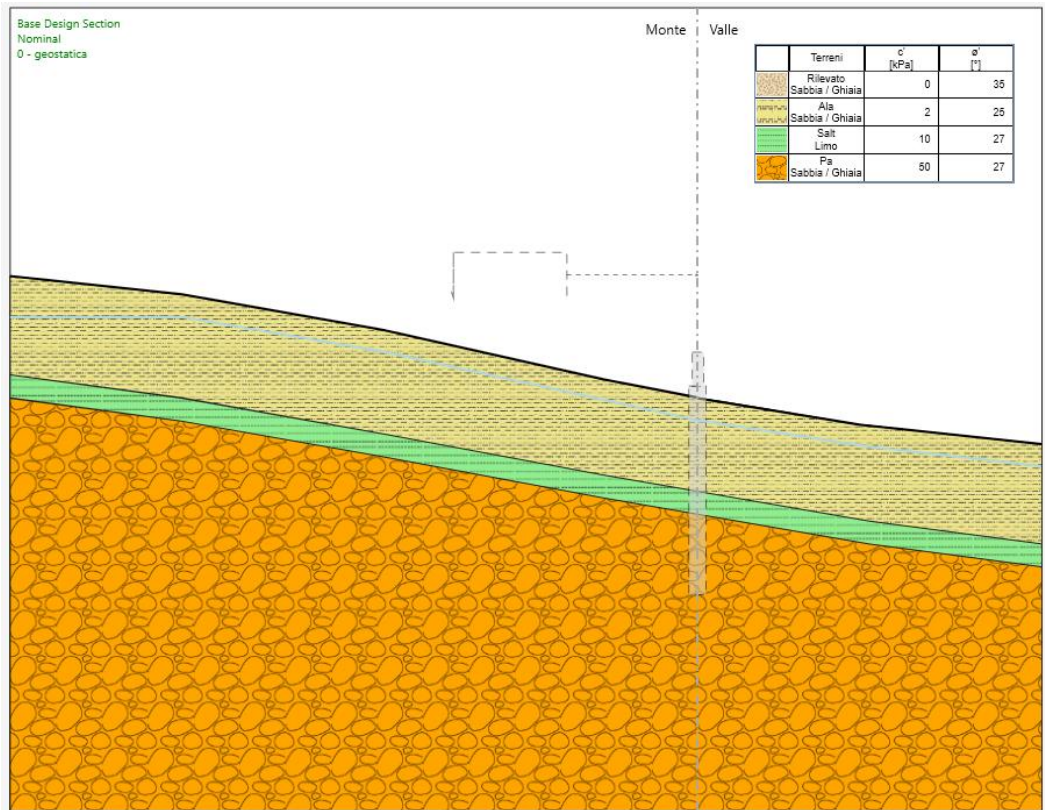


Figura 6 Modello di calcolo Paratie Plus – fase geostatica di inizializzazione degli sforzi

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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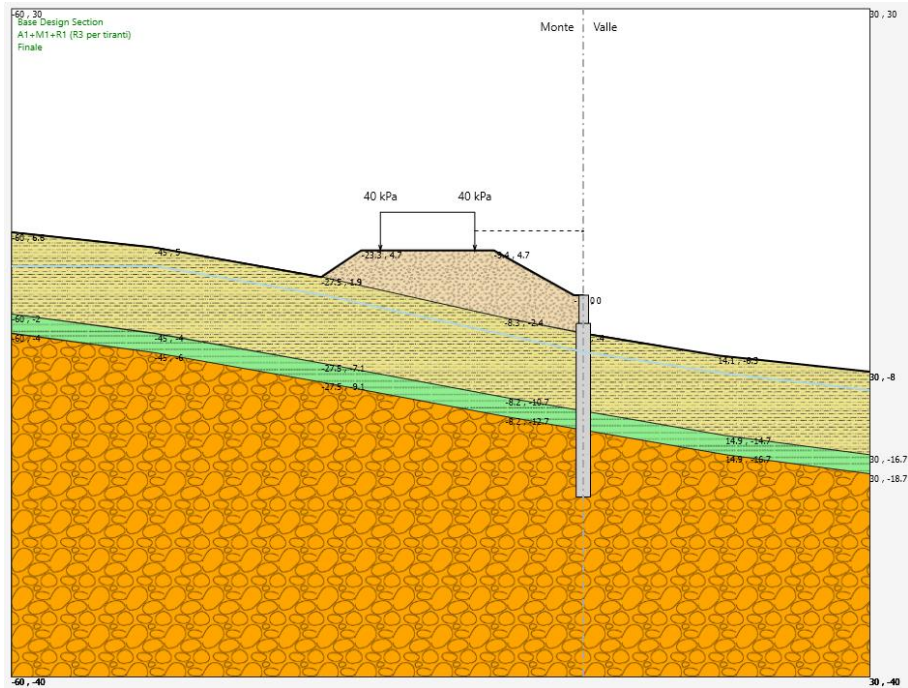


Figura 7 Modello di calcolo Paratie Plus

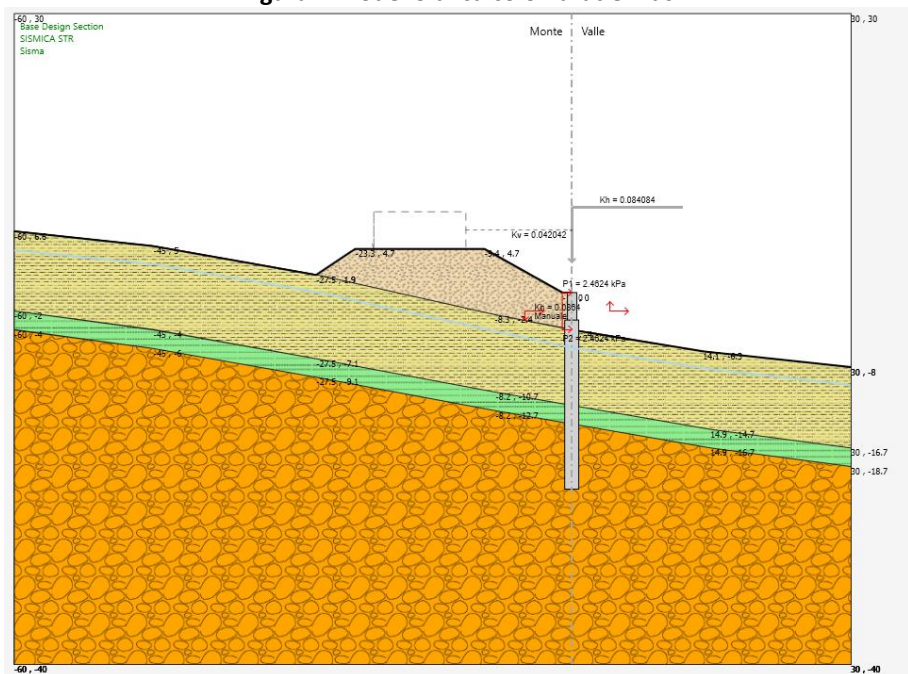


Figura 8 Modello di calcolo Paratie Plus - condizioni sismiche

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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10.2.1 Sollecitazioni nella paratia

Si presentano di seguito i risultati delle analisi per quanto riguarda le sollecitazioni nella paratia e nel paramento del muro. Le figure seguenti riportano una rappresentazione della sezione analizzata e le sollecitazioni nella paratia in SLU e SLV.

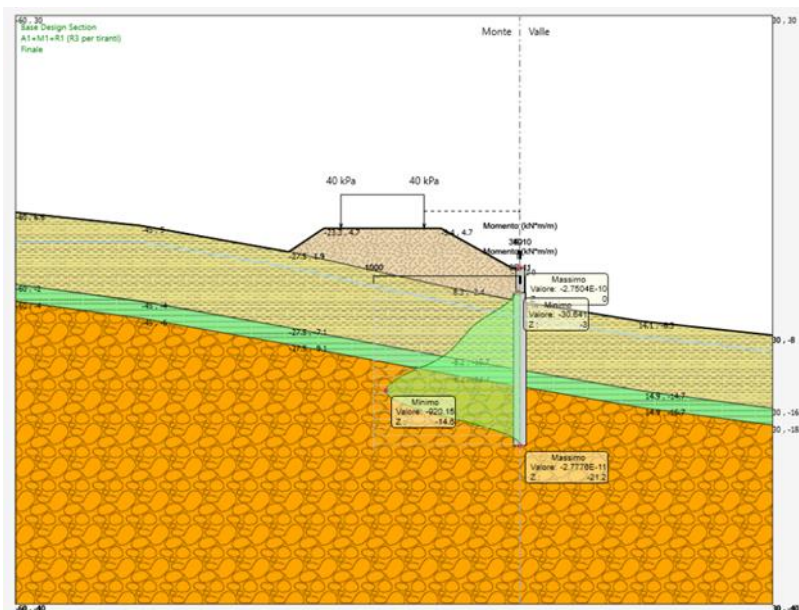


Figura 9 – Momento flettente nella paratia - configurazione finale (SLU)

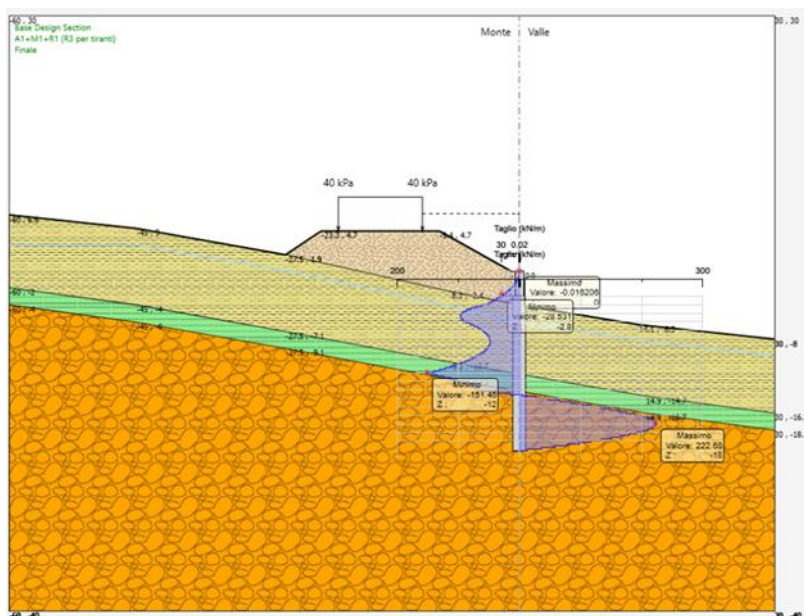


Figura 10 – Taglio nella paratia - configurazione finale (SLU)

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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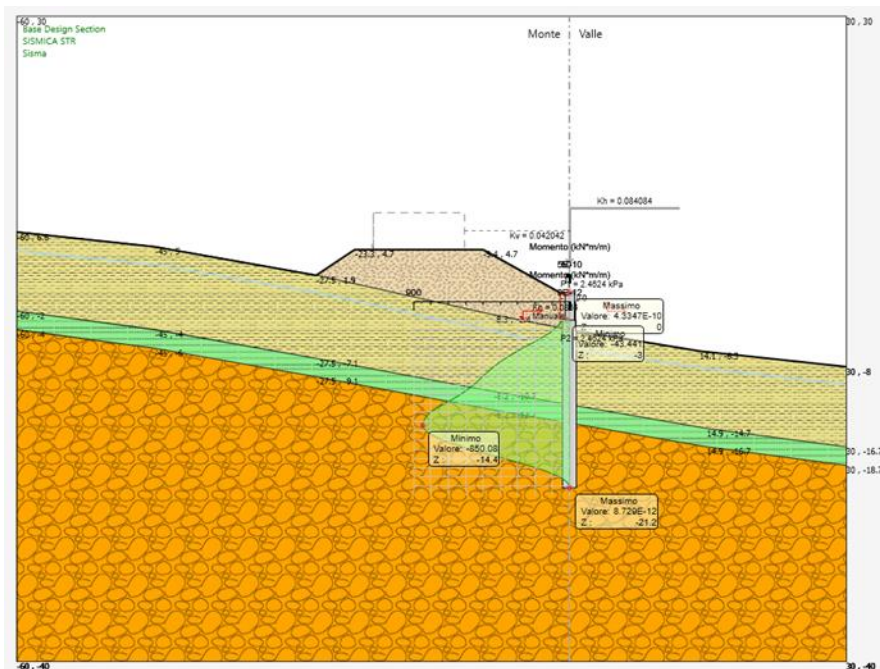


Figura 11 – Momento flettente nella paratia - configurazione finale (SLV)

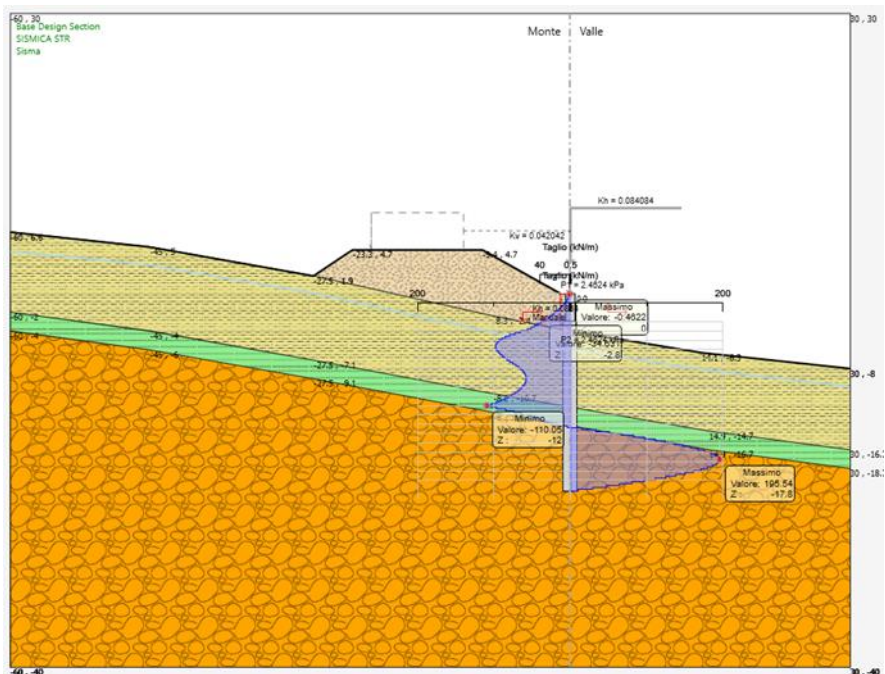


Figura 12– Taglio nella paratia - configurazione finale (SLV)

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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10.2.2 Verifica sulla spinta mobilitata al piede della paratia

La verifica sulla quota parte di spinta passiva mobilitata al piede della paratia è stata effettuata tramite il codice di calcolo Paratie.

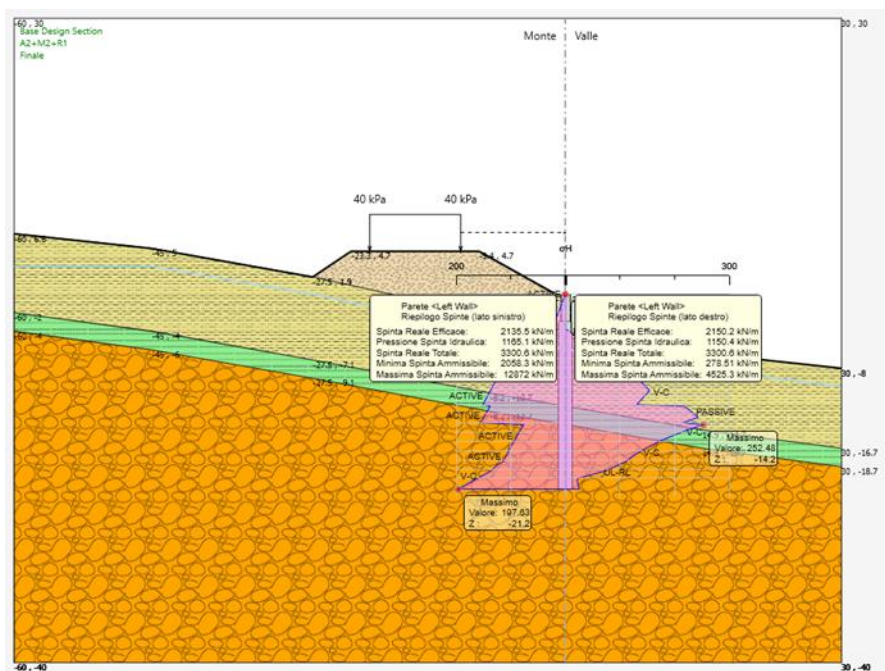


Figura 13 – Verifica sulla spinta mobilitata al piede delle paratia - configurazione finale (SLU)

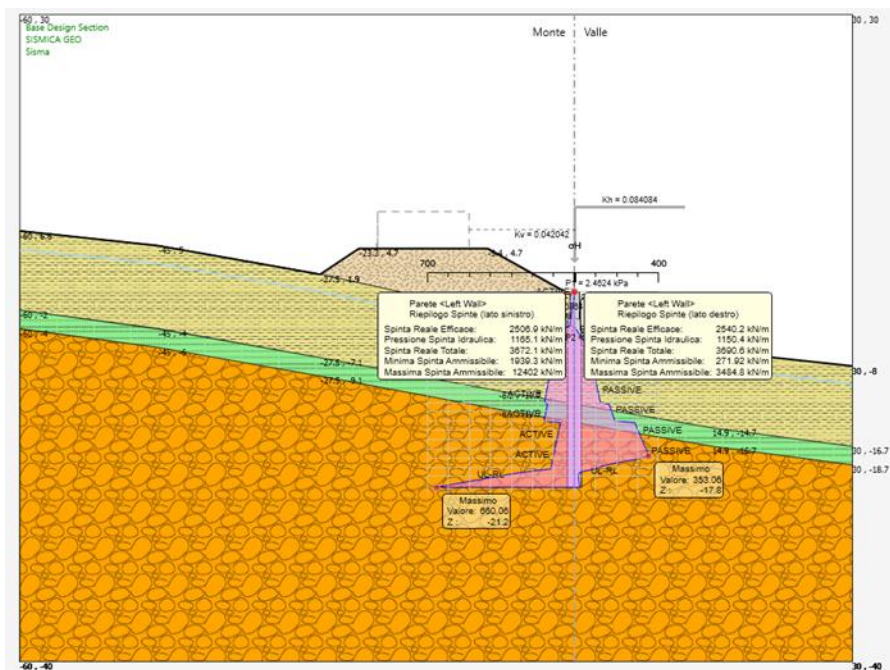


Figura 14 – Verifica sulla spinta mobilitata al piede delle paratia - configurazione finale (SLV)

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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Tabella 18 Mobilitazione della spinta passiva al piede della paratia

	SLU (A2+M2+R1)	SLV (SISMICA GEO)
Rp (%)	48	73

10.2.3 Stima degli spostamenti della paratia

Nella seguente figura si riporta il grafico relativo agli spostamenti SLE nella configurazione finale in condizioni statiche.

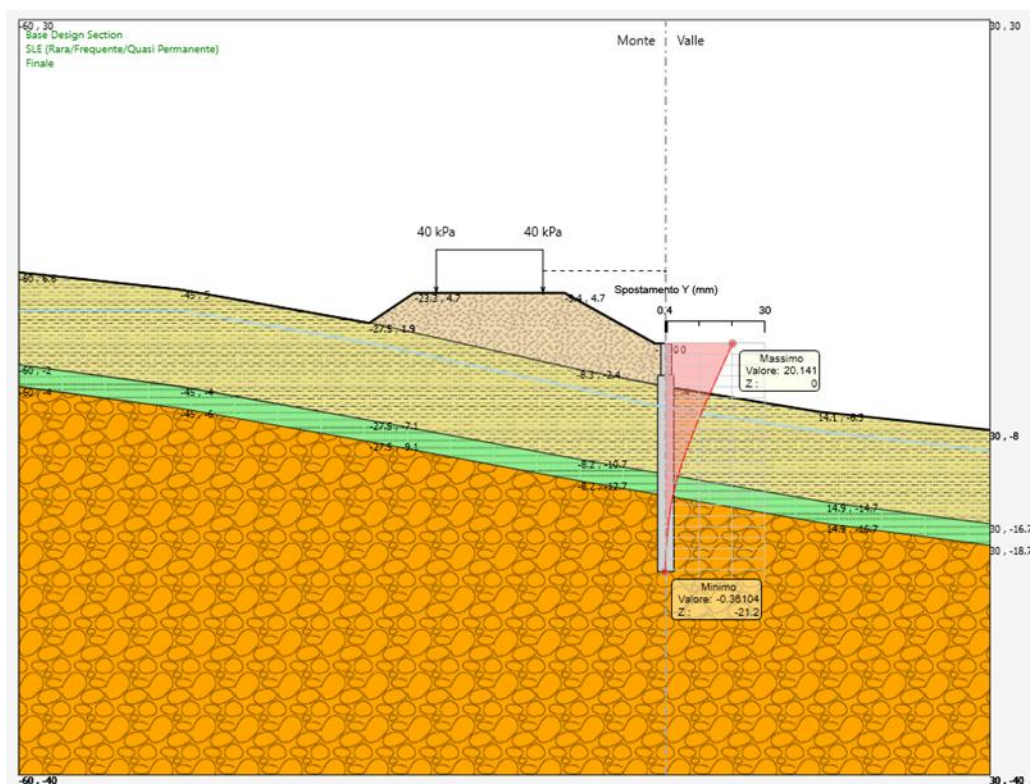


Figura 15 – Spostamenti della paratia – configurazione finale (SLE)

Gli spostamenti qui riportati sono a seguito del riempimento del rilevato e quindi da attendersi durante la fase costruttiva. Durante l'esercizio stradale non sono previsti ulteriori spostamenti orizzontali a tergo del paramento

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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10.2.4 Stabilità globale

Nelle seguenti figure si riportano i risultati delle verifiche di stabilità globale per le condizioni statiche e sismiche.

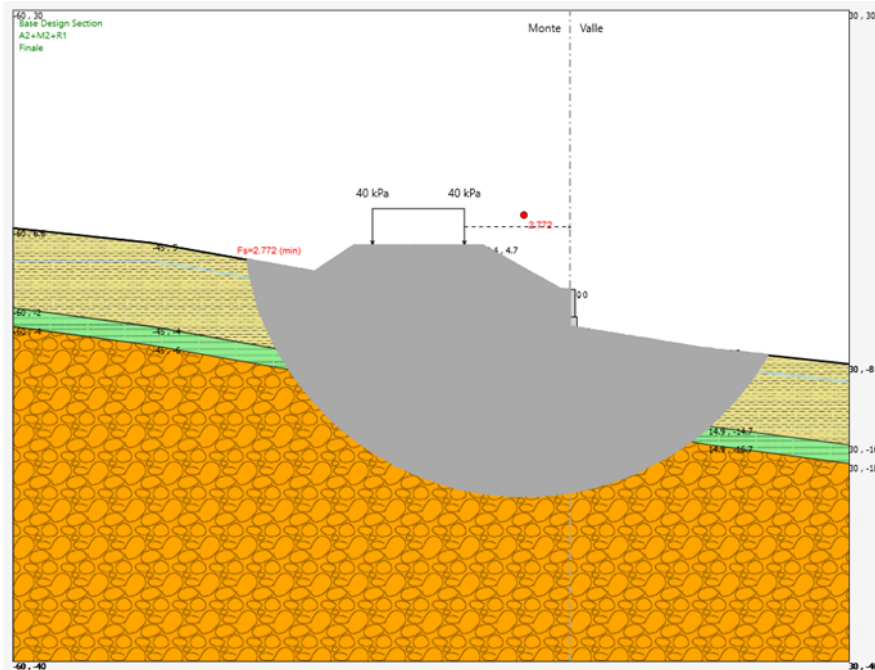


Figura 16 – Verifica di stabilità globale – configurazione finale (SLU)

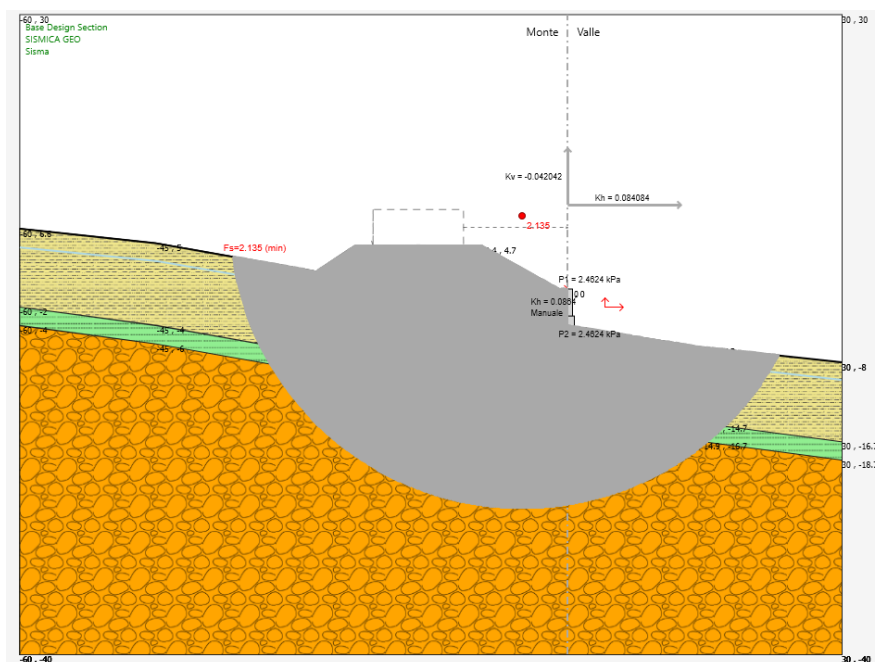


Figura 17 – Verifica di stabilità globale – configurazione finale (SLV)

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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In entrambi i casi è stato ottenuto un coefficiente di sicurezza FS, relativo alla superficie di scorrimento più critica, superiore al valore assunto del coefficiente parziale di resistenza che riduce la resistenza disponibile del terreno, γ_R , pari a 1.1, pertanto, secondo quanto prescritto dalla normativa considerata, le verifiche di sicurezza risultano essere soddisfatte.

10.2.5 Verifica della capacità portante dei pali sottoposti alle azioni verticali

I carichi verticali utilizzati per la verifica di capacità portante derivano esclusivamente dal peso proprio del paramento. Il calcolo è stato effettuato prendendo la geometria più grande lungo lo sviluppo del muro. In particolare:

$$N_{max} = W_{paramento} = \gamma \cdot \frac{(b + B) \cdot h}{2} = 25 \cdot \frac{(0.5 + 1) \cdot 3}{2}$$

$$N_{max} = (1 + k_v) \cdot W_{paramento} = (1 + 0.5 \cdot k_h) \cdot W_{paramento}$$

Tabella 19 Calcolo azioni verticali allo stato limite ultimo

N ULS (A1+M1+R2)	76 kN
N ULS (A2+M1+R2)	57 kN
N ULS SISM	82 kN

I parametri di calcolo della capacità portante dei pali vengono riportati nella seguente tabella:

Tabella 20 Parametri di calcolo della capacità portante

Approccio	Verticali indagate	ξ_3	γ_s	γ_b	F
DA1 (A1+M1+R1)	3	1.65	1.0	1.0	54
DA1 (A2+M1+R2)	3	1.65	1.45	1.7	44
DA2 SISM (A1+M1+R3)	3	1.65	1.15	1.35	52

Di seguito si riportano i risultati delle verifiche di portanza:

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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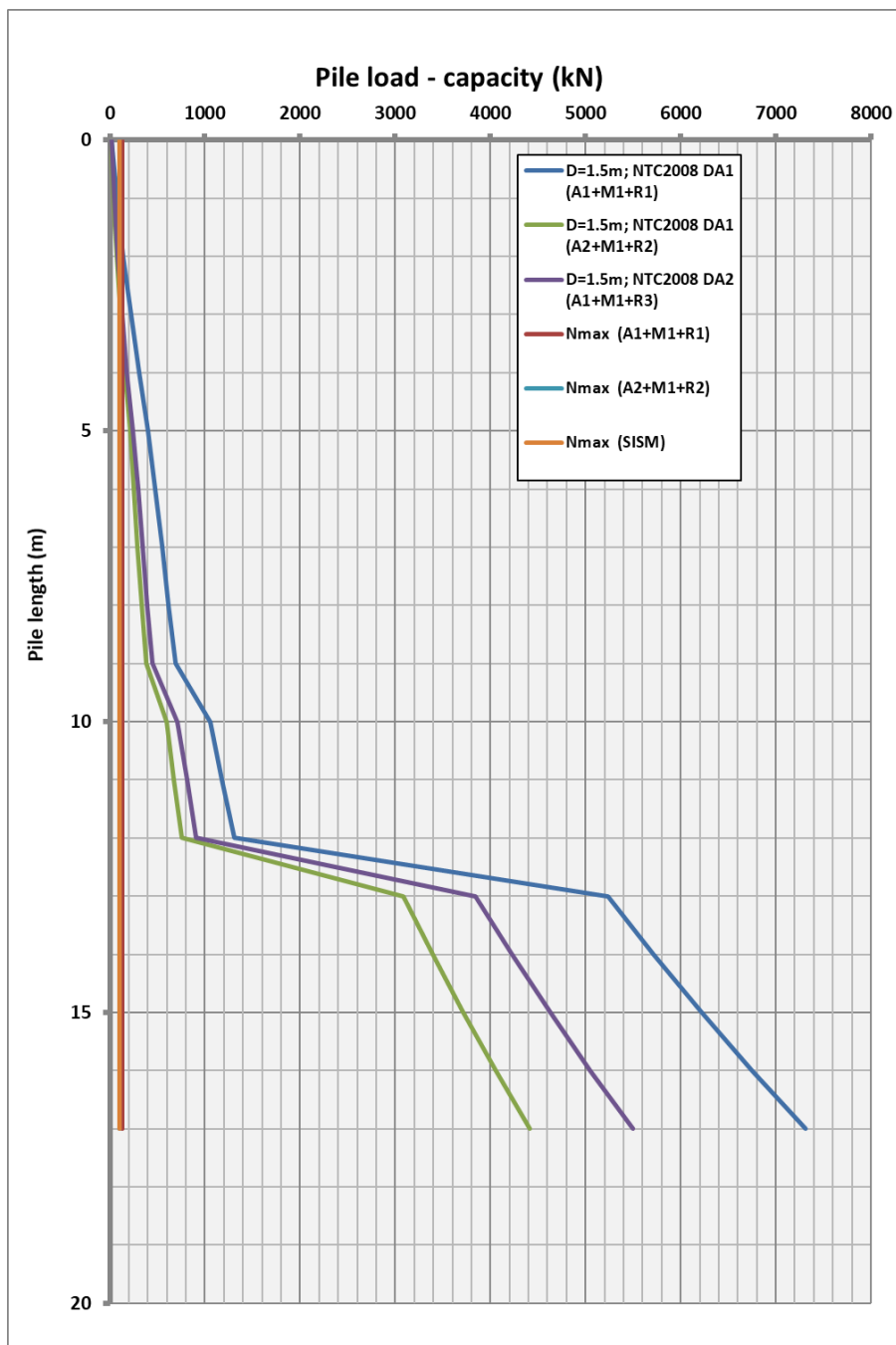


Figura 18 Capacità portante dei pali



2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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Z	L pile	γ	$\sigma'v$	lito	Shear Resistance parameter		Bearing capacity factors				R calc			Pile weight			R ck			DA1 - COMB.1	DA1 - COMB.2	DA2 - SEISMIC		
					c'	ϕ'	Nc	Nq	$\tan \phi'$	k	τ	τ_{tot}	Rlat	Rb	Rtot	w'	w' (A1)	w' (A2)	Rlat / ξ	Rb / ξ	Rtot	Rcd	Rcd	Rcd
m. da p.c.	m	kN/mc	kPa	-	kPa	°	-	-	-	-	kPa	kPa	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN	kN
0	0	19	0	Ala	2	25	8,6	5	0,47	0,58	0	0	0	30	30	0	0	0	0	18	18	18	18	
1	1	19	19	Ala	2	25	8,6	5	0,47	0,58	5	5	26	198	224	44	60	44	16	120	136	76	37	43
2	2	19	38	Ala	2	25	8,6	5	0,47	0,58	9	14	67	366	433	88	119	88	41	222	263	143	70	81
3	3	19	57	Ala	2	25	8,6	5	0,47	0,58	12	27	125	534	659	132	179	132	76	323	399	220	110	127
4	4	19	76	Ala	2	25	8,6	5	0,47	0,58	16	42	199	701	901	177	238	177	121	425	546	307	157	181
5	5	19	95	Ala	2	25	8,6	5	0,47	0,58	19	61	289	869	1159	221	298	221	175	527	702	404	210	245
6	6	19	107	Ala	2	25	8,6	5	0,47	0,58	21	83	390	975	1365	258	348	258	236	591	827	479	253	295
7	7	19	116	Ala	2	25	8,6	5	0,47	0,58	23	106	498	1055	1553	292	394	292	302	639	941	547	292	342
8	8	19	125	Ala	2	25	8,6	5	0,47	0,58	25	130	613	1134	1748	326	440	326	372	687	1059	619	335	392
9	9	19	134	Ala	2	25	8,6	5	0,47	0,58	26	156	737	1214	1951	360	487	360	447	736	1182	696	380	447
10	10	20	144	Salt	10	26	10,3	6	0,49	0,56	36	193	908	1707	2616	395	533	395	551	1035	1585	1053	594	712
11	11	20	154	Salt	10	26	10,3	6	0,49	0,56	38	231	1089	1813	2902	429	579	429	660	1099	1759	1180	673	809
12	12	20	164	Salt	10	26	10,3	6	0,49	0,56	40	271	1278	1919	3197	463	625	463	774	1163	1937	1313	755	910
13	13	21	175	Pa	70	36	22,0	17	0,73	0,41	105	376	1773	7977	9750	497	671	497	1075	4835	5909	5238	3088	3845
14	14	22	187	Pa	70	36	22,0	17	0,73	0,41	108	484	2280	8338	10617	531	717	531	1382	5053	6435	5718	3394	4227
15	15	23	200	Pa	70	36	22,0	17	0,73	0,41	110	594	2799	8728	11527	565	763	565	1696	5290	6986	6223	3716	4630
16	16	24	214	Pa	70	36	22,0	17	0,73	0,41	113	707	3331	9148	12479	600	809	600	2019	5544	7563	6754	4054	5053
17	17	25	229	Pa	70	36	22,0	17	0,73	0,41	116	823	3877	9599	13476	634	855	634	2350	5817	8167	7312	4409	5497

La verifica a capacità portante dei pali sottoposti ad azioni verticali risulta soddisfatta

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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10.2.6 Verifiche strutturali dei pali

Per la paratia di pali, costituita da pali di diametro 1500mm ad interasse 1.7m, si prevede la seguente armatura di calcolo:

- Armatura longitudinale: Gabbia sup.: 26+26 Φ 26mm fino a 12m.
Gabbia inf.: 26+26 Φ 26mm fino a base palo.
- Armatura a taglio: Spirali sup. Φ 16/20cm;
Spirali inf. Φ 16/20cm;
- Copriferro netto: 9cm.

Il quantitativo di armatura longitudinale è stato verificato nei rispetti dei requisiti minimi e massimi da normativa UNI EN 1536:2003 e NTC08.

In particolare

$$A_{s_{gabbia1}} = 26\phi 26 = 0.0137 \text{ m}^2$$

$$A_{s_{tesa1}} = 17\phi 26 = 0.009 \text{ m}^2$$

$$A_{s_{min}} = 0.26 \frac{f_{ctm}}{f_{yk}} \cdot b_t \cdot d = 0.0027 \text{ m}^2 \text{ [4.1.6.1.1 NTC2008]}$$

$$A_{s_{min}} = 0.0013 \cdot b_t \cdot d = 0.002 \text{ m}^2 \text{ [4.1.6.1.1 NTC2008]}$$

$$A_{s_{min}} = 0.25\% \cdot A_c = 0.0044 \text{ m}^2 \text{ [7.6 UNI EN 1536]}$$

$$A_{s_{max}} = 0.04 \cdot A_c = 0.07 \text{ m}^2 \text{ [4.1.6.1.1 NTC2008]}$$

Con

$$bw = 1.34 \text{ m}$$

$$d = 1.17 \text{ m}$$

Per ulteriori dettagli si rimanda agli elaborati di carpenterie ed armature LO703213E16MU0026CRP01C e LO703213E16MU0026ARM01A.

La paratia è stata verificata per le seguenti combinazioni di carico:

Tabella 21 – Sollecitazioni verificate (gabbia sup.)

STATO LIMITE	N [kN]	M [kNm]	T [kN]
SLU	-	1564.3	378.6
SLV	-	1302	334.1
SLE	672	1203.4	-

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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PRESSOFLESSIONE STATO LIMITE ULTIMO

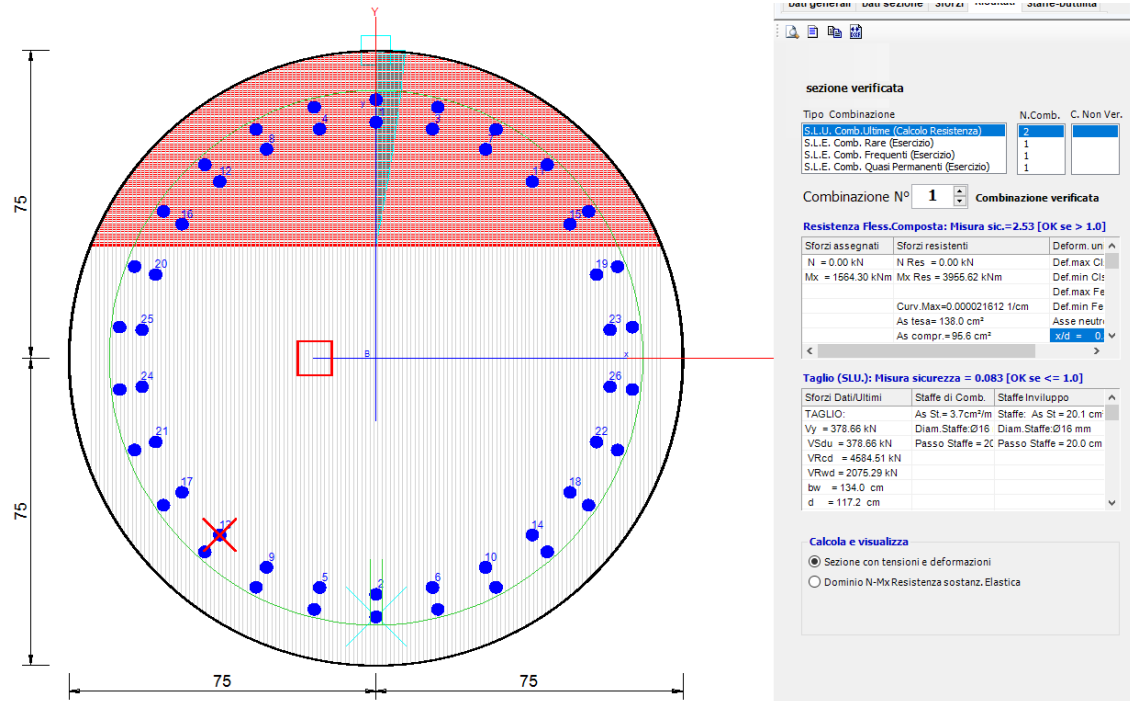


Figura 19 – Combinazione 1 (Mmax) - 26+26Φ26 - SLU

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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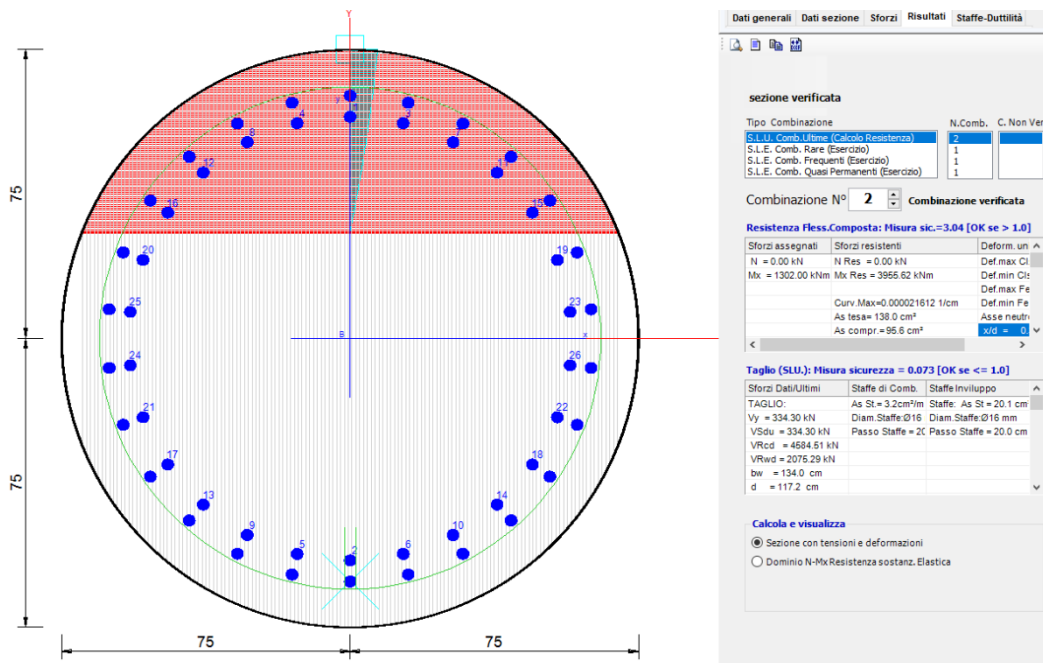


Figura 20 – Combinazione 2 (Mmax) – Gabbia sup. 26+26φ26 - SLV

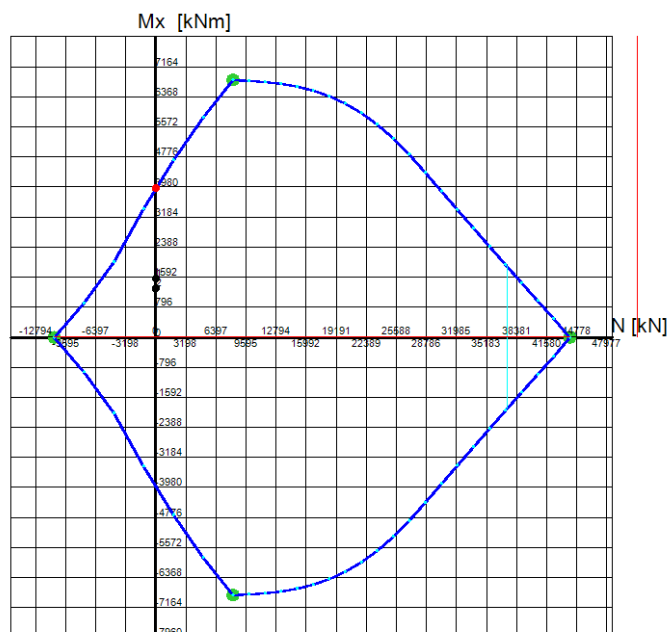


Figura 21 – Dominio M-N - Gabbia sup. 26+26φ26 - SLU e SLV

STATO LIMITE ESERCIZIO

Di seguito sono riportate le massime sollecitazioni nelle barre e nel calcestruzzo durante le fasi di

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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esercizio e l'apertura massima delle fessure nella sezione maggiormente sollecitata del palo.

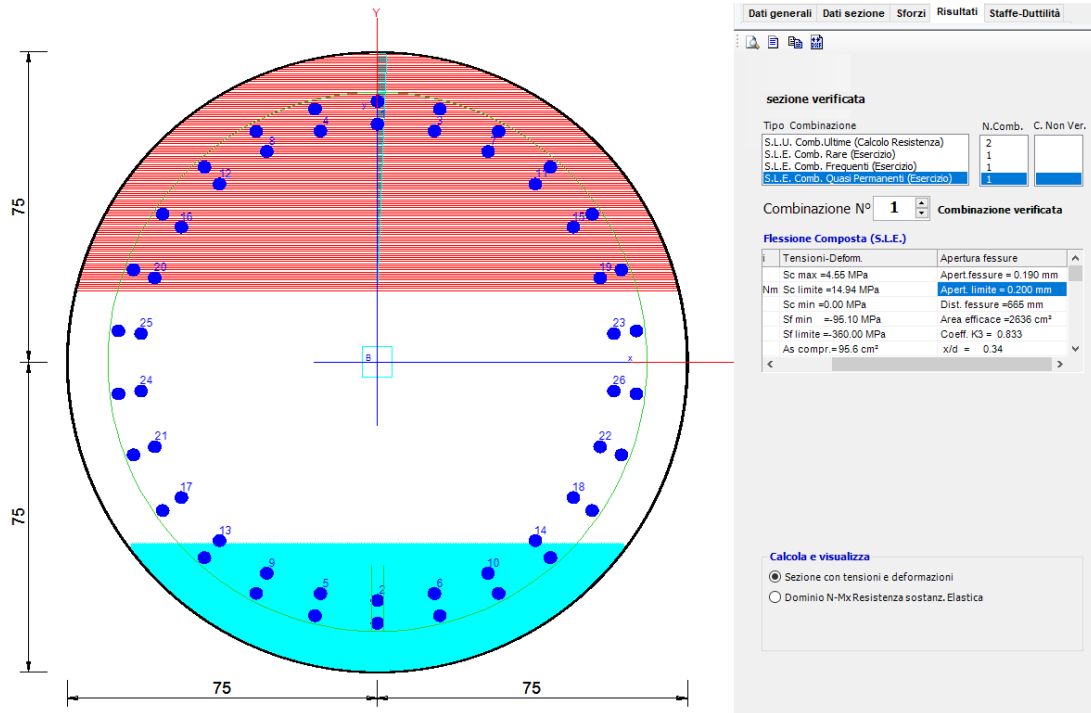


Figura 22 – Combinazione 3 - SLE – Verifiche di fessurazione e di tensione sulle barre

Tabella 22 – Verifica tensioni

COMBINAZIONE	TENSIONI ESERCIZIO	TENSIONI AMMISSIBILI
S.L.E. RARA	$\sigma_s = 95.10$ MPa	360 MPa
	$\sigma_c = 4.55$ MPa	19.18 MPa
S.L.E. QUASI PERMANENTE	$\sigma_s = 95.10$ MPa	360 MPa
	$\sigma_c = 4.55$ MPa	14.38 MPa

Tabella 23 – Verifica apertura fessure

COMBINAZIONE	MAX. APERTURA	FESSURA LIMITE
S.L.E. FREQUENTE	0.19 mm	0.3 mm
S.L.E. QUASI PERMANENTE	0.19 mm	0.2 mm

10.3 VERIFICHE STRUTTURALI DEL PARAMENTO

Per il paramento del muro si prevede la seguente armatura di calcolo:

- Armatura trasversale: $\Phi 20/20$ mm
- Armatura longitudinale: $\Phi 16/20$ mm

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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- Armatura a taglio: $\Phi 14/20\text{mm}$
- Copriferro netto: 50mm.

Il quantitativo di armatura longitudinale è stato verificato nei rispetti dei requisiti da normativa NTC08 (par. 7.4.6.2.4) ed EC2 per quanto riguarda i minimi di armatura longitudinale e trasversale (par 9.6.2 e 9.6.3).

Per ulteriori dettagli si rimanda agli elaborati di carpenterie ed armature L0703213E16MU0026ARM01A.

Il paramento del muro è stato verificato per le seguenti combinazioni di carico considerando la sezione più sollecitata tra quelle analizzate.

Tabella 24 – Sollecitazioni verificate (gabbia sup.)

STATO LIMITE	N [kN]	M [kNm]	T [kN]
SLU	-	33	30
SLV	-	45	36
SLE	-	25	-

PRESSOFLESSIONE STATO LIMITE ULTIMO

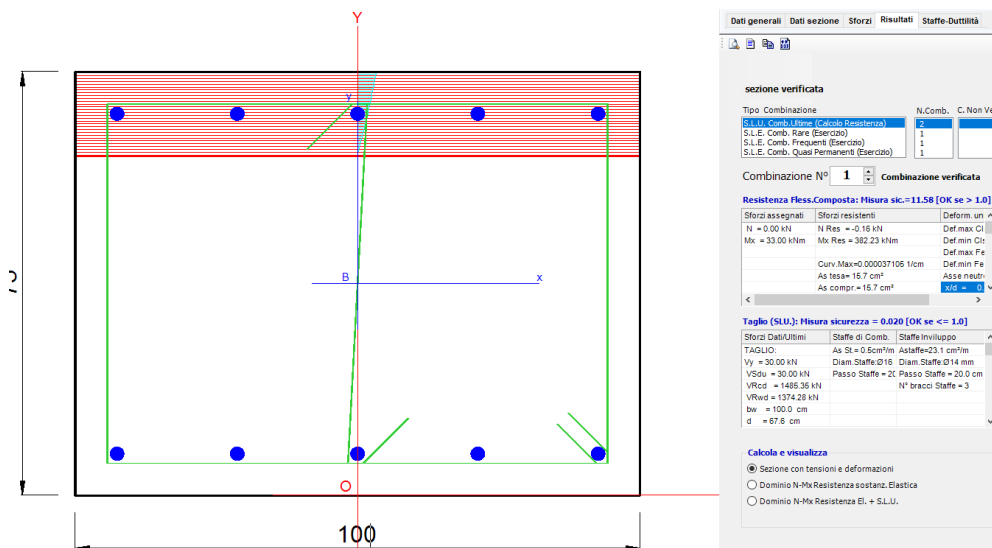


Figura 23 – Combinazione 1 (Mmax) - $\Phi 20/20$ - SLU

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

Paratia di sottoscarpa con paramento in SX da 6+937.00 a 6+963.00

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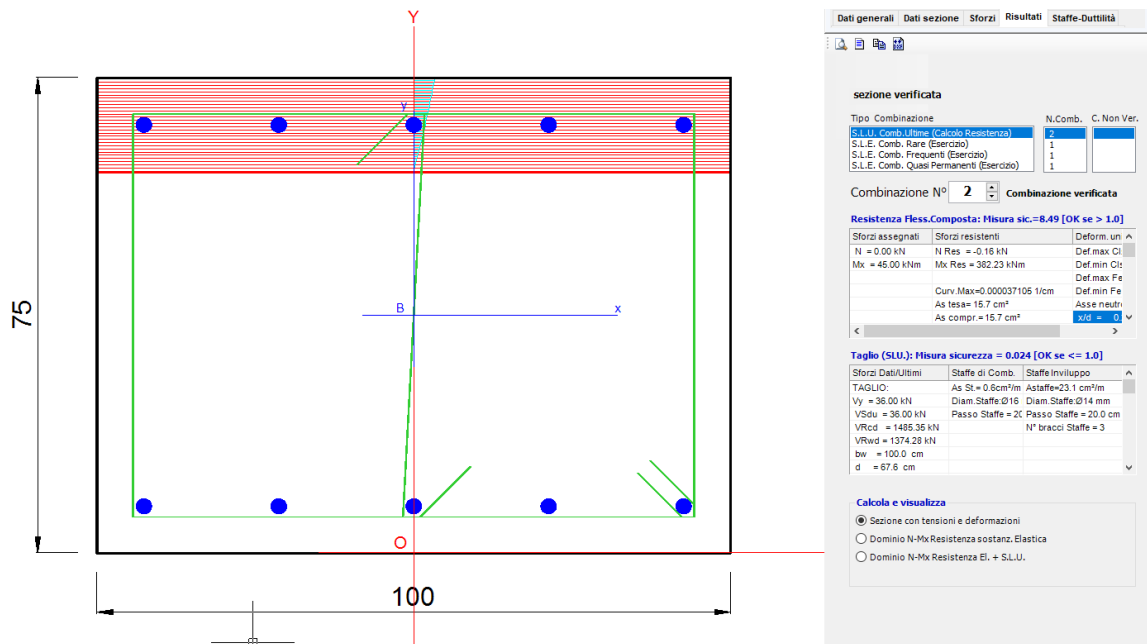


Figura 24 – Combinazione 2 (Mmax) – $\Phi 20/20$ - SLV

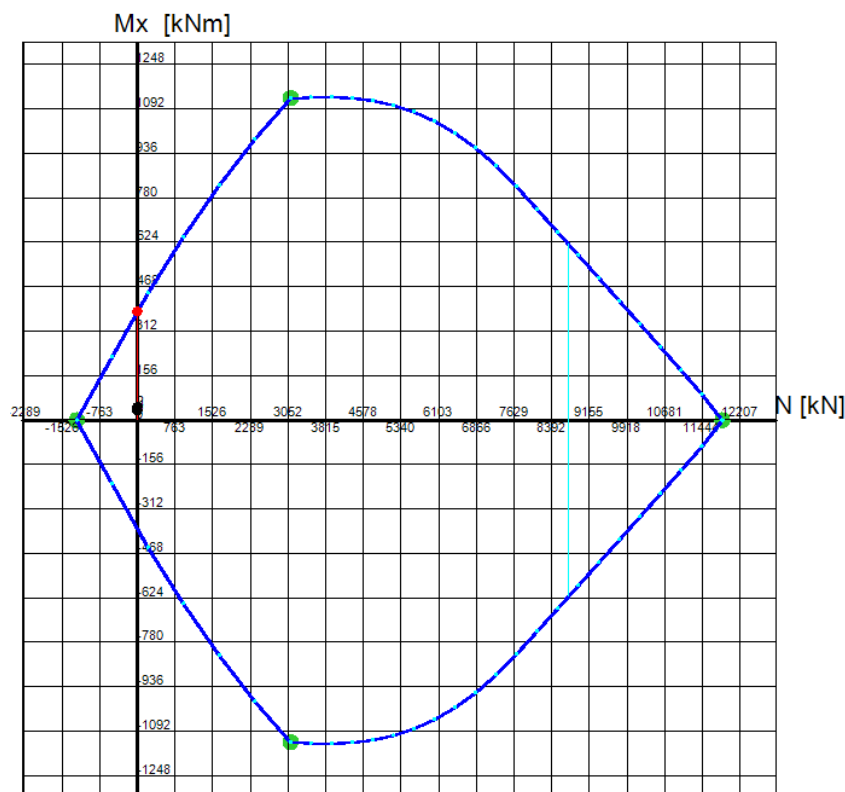


Figura 25 – Dominio M-N – $\Phi 20/20$ - SLU e SLV

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

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STATO LIMITE ESERCIZIO

Di seguito sono riportate le massime sollecitazioni nelle barre e nel calcestruzzo durante le fasi di esercizio e l'apertura massima delle fessure nella sezione maggiormente sollecitata del palo.

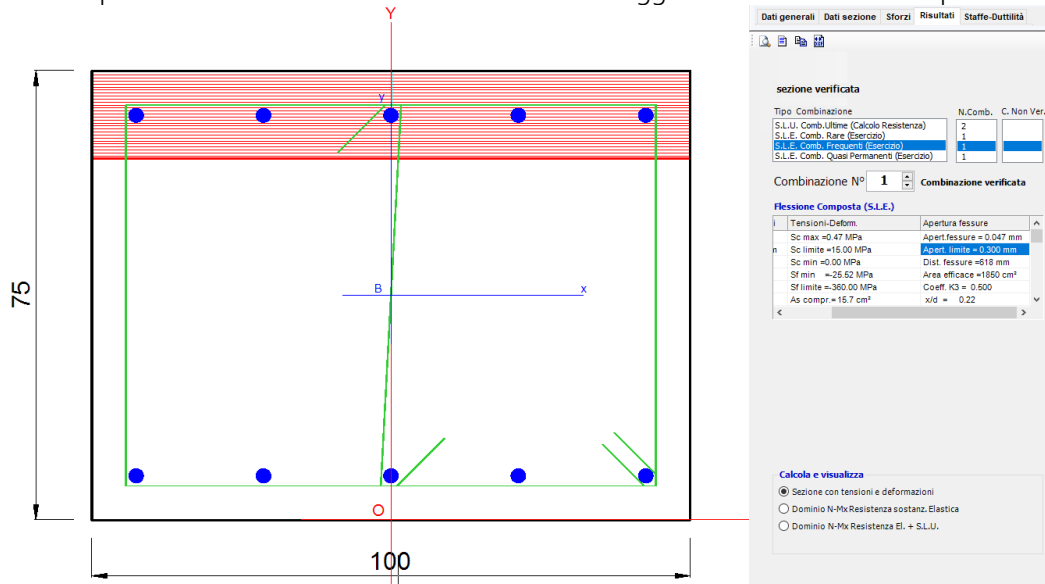


Figura 26 – Combinazione 3 - SLE – Verifiche di fessurazione e di tensione sulle barre

Tabella 25 – Verifica tensioni

COMBINAZIONE	TENSIONI ESERCIZIO	TENSIONI AMMISSIBILI
S.L.E. RARA	$\sigma_s = 25.5 \text{ MPa}$	360 MPa
	$\sigma_c = 0.5 \text{ MPa}$	19.18 MPa
S.L.E. QUASI PERMANENTE	$\sigma_s = 25.5 \text{ MPa}$	360 MPa
	$\sigma_c = 0.5 \text{ MPa}$	14.38 MPa

Tabella 26 – Verifica apertura fessure

COMBINAZIONE	MAX. APERTURA	FESSURA LIMITE
S.L.E. FREQUENTE	0.05 mm	0.3 mm
S.L.E. QUASI PERMANENTE	0.05 mm	0.2 mm

Il cordolo di testa di collegamento dei pali su cui è fondato il paramento, di altezza pari a 120 cm e larghezza pari a 180 cm, è stato dimensionato sulla base delle prescrizioni minime di armatura come riportato al capitolo 4.1.6.1.1 del NTC08.

- Si prevede la seguente carpenteria ed armatura di calcolo:
- Armatura longitudinale: $7\Phi 26\text{mm}$ (intradosso) + $7\Phi 26\text{mm}$ (estradosso);
- Staffe: $\Phi 14/15\text{cm}$;

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

Paratia di sottoscarpa con paramento in SX da 6+937.00 a 6+963.00

Relazione tecnica e di calcolo

Opera LO703	Tratto 213	Settore E	CEE 16	WBS MU0026	Id.doc REL	N.prog. 01	Rev. D	Pag.di Pag. 42 di 46
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- Copriferro netto: 5cm.

Il copriferro netto è stato calcolato considerando i limiti per le travi su terreno preparato secondo quanto riportato in normativa quantitativi di armatura soddisfano i requisiti da normativa UNI EN 1536:2003 e ENV 1992-1-1.

$$c_{nom} = c_{min} + \Delta_c = 40 + 10mm = 50mm$$

Il quantitativo di armatura longitudinale è stato verificato nei rispetti dei requisiti minimi e massimi da normativa UNI EN 1536:2003 e NTC08.

In particolare

$$A_s = 7\phi 26 = 0.0037 m^2$$

$$A_{s,min} = 0.26 \frac{f_{ctm}}{f_{yk}} \cdot b_t \cdot d = 0.0036 m^2 \text{ [4.1.6.1.1 NTC2008]}$$

$$A_{s,min} = 0.0013 \cdot b_t \cdot d = 0.0026 m^2 \text{ [4.1.6.1.1 NTC2008]5}$$

$$A_{s,max} = 0.04 \cdot A_c = 0.08 m^2 \text{ [4.1.6.1.1 NTC2008]}$$

Con

$$b = 1.2 m$$

$$d = 1.72 m$$

Il quantitativo di armatura trasversale è stato verificato nei rispetti dei requisiti minimi da normativa NTC08.

$$A_{sw} = 2 \text{ bracci } \phi 14/15 = 2051 \frac{mm^2}{m}$$

$$A_{sw,min} = 1.5 b = 1800 \frac{mm^2}{m}$$

Per ulteriori dettagli si rimanda agli elaborati di armatura del cordolo (LO703213E16MU0026ARM02A).

10.4 RISULTATI DELLE ANALISI: SEZIONE 2 - SCARPATA

10.4.1 Stabilità globale

Le analisi di stabilità globale sono state condotte in condizioni statiche e sismiche. Dalle analisi eseguite è stato ottenuto un coefficiente di sicurezza FS, relativo alla superficie di scorrimento più critica, superiore al il valore del coefficiente parziale di resistenza che riduce la resistenza disponibile del terreno γ_R , pari a 1.1, pertanto, secondo quanto prescritto dalla normativa considerata, le verifiche di sicurezza risultano essere soddisfatte sia in condizioni statiche che sismiche.

Nelle seguenti figure sono rappresentate le superfici di scorrimento critiche ottenute dalle analisi di stabilità globale.

Per ulteriori dettagli si rimanda all'Allegato A.

2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

Paratia di sottoscarpa con paramento in SX da 6+937.00 a 6+963.00

Relazione tecnica e di calcolo

Opera	Tratto	Settore	CEE	WBS	Id.doc	N.prog.	Rev.	Pag.di Pag.
L0703	213	E	16	MU0026	REL	01	D	43 di 46

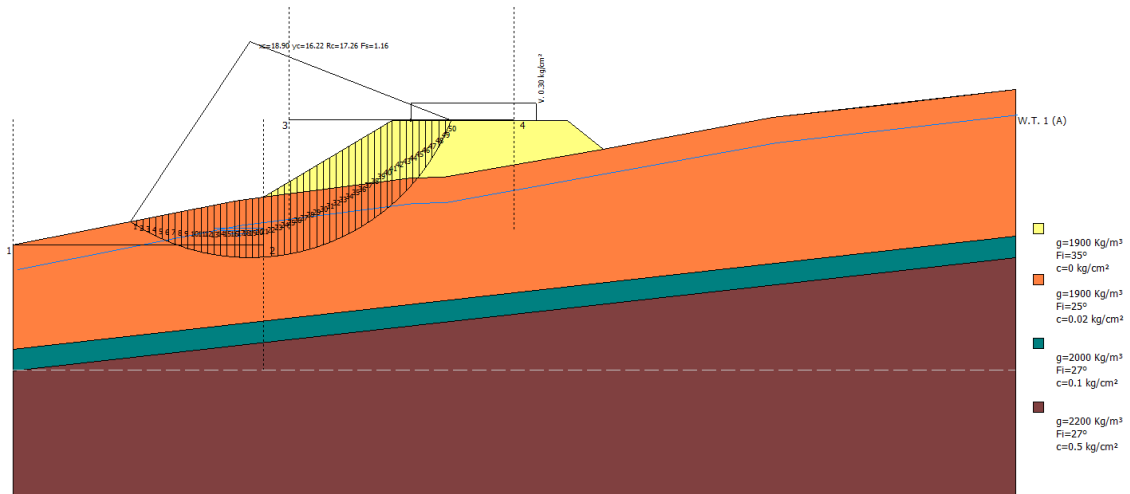


Figura 27 – Verifica di stabilità globale (SLU)

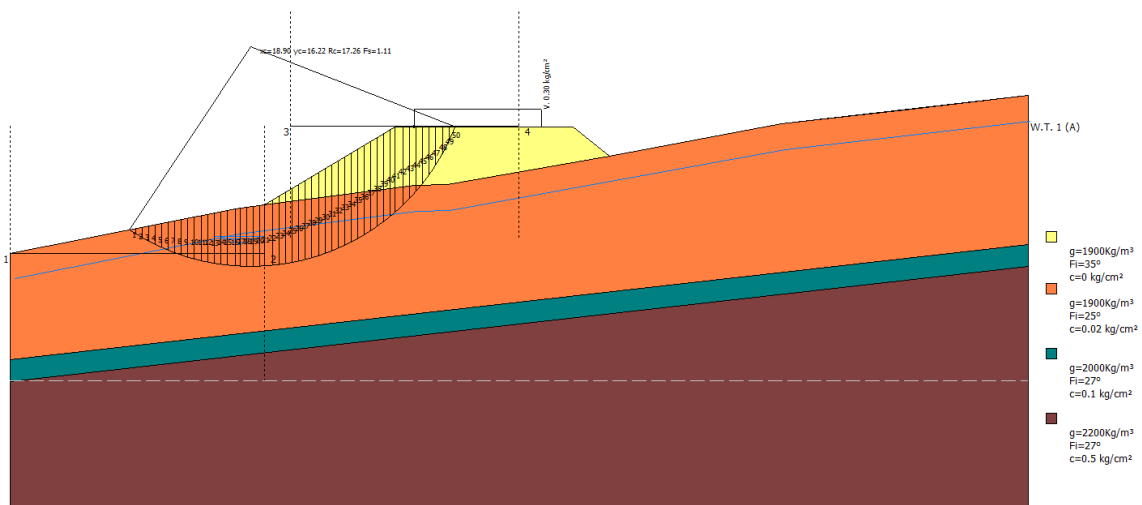


Figura 28– Verifica di stabilità globale (SLV)



2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

Paratia di sottoscarpa con paramento in SX da 6+937.00 a 6+963.00

Relazione tecnica e di calcolo

Opera L0703	Tratto 213	Settore E	CEE 16	WBS MU0026	Id.doc REL	N.prog. 01	Rev. D	Pag.di Pag. 44 di 46
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11. CONCLUSIONI

La presente relazione tecnica e di calcolo riassume i criteri di dimensionamento, le analisi e le verifiche condotte sulle opere di stabilità profonda dei terreni di fondazione del rilevato da progressiva 6+937 a progressiva 6+963 dei Lotti 3 e 4 dell'opera Pedemontana delle Marche.

Le verifiche geotecniche e strutturali risultano soddisfatte per gli stati limite considerati secondo le normative di riferimento.



2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

Paratia di sottoscarpa con paramento in SX da 6+937.00 a 6+963.00

Relazione tecnica e di calcolo

Opera L0703	Tratto 213	Settore E	CEE 16	WBS MU0026	Id.doc REL	N.prog. 01	Rev. D	Pag.di Pag. 45 di 46
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APPENDICE A

REPORT DI CALCOLO VERIFICHE GEOTECNICHE



2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

Paratia di sottoscarpa con paramento in SX da 6+937.00 a 6+963.00

Relazione tecnica e di calcolo

Opera L0703	Tratto 213	Settore E	CEE 16	WBS MU0026	Id.doc REL	N.prog. 01	Rev. D	Pag.di Pag. 46 di 46
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APPENDICE B

REPORT DI CALCOLO VERIFICHE STRUTTURALI



Report di Calcolo

Sommario

Contenuto Sommario

1. Descrizione del Software

ParatiePlus è un codice agli elementi finiti che simula il problema di uno scavo sostenuto da diaframmi flessibili e permette di valutare il comportamento della parete di sostegno durante tutte le fasi intermedie e nella configurazione finale.

2. Descrizione della Stratigrafia e degli Strati di Terreno

Tipo : POLYLINE

Punti

(-60;15)
(-50;15)
(30;15)
(40;15)
(40;-40)
(-60;-40)

OCR : 1

Tipo : POLYLINE

Punti

(-60;6.6)
(-45;5)
(-27.5;1.9)
(-8.3;-2.4)
(0;-4)
(14.1;-6.3)
(30;-8)
(40;-8)
(40;-40)
(-60;-40)

OCR : 1

Tipo : POLYLINE

Punti

(-60;-2)
(-45;-4)
(-27.5;-7.1)
(-8.2;-10.7)
(14.9;-14.7)
(30;-16.7)
(40;-16.7)
(40;-40)
(-60;-40)

OCR : 1

Tipo : POLYLINE

Punti

(-60;-4)
(-45;-6)
(-27.5;-9.1)
(-8.2;-12.7)
(14.9;-16.7)
(30;-18.7)
(40;-18.7)

(40;-40)

(-60;-40)

OCR : 1

3. Descrizione Pareti

X : 0 m

Quota in alto : 0 m

Quota di fondo : -3 m

Muro di sinistra

Sezione : Paramento

Area equivalente : 1 m

Inerzia equivalente : 0.0833 m⁴/m

Materiale calcestruzzo : C32/40

Tipo sezione : Solid

Spessore : 1 m

Efficacia : 1



X : 0 m

Quota in alto : -3 m

Quota di fondo : -21.2 m

Muro di sinistra

Sezione : Pali1500

Area equivalente : 1.03949756920251 m

Inerzia equivalente : 0.1462 m⁴/m

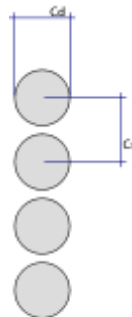
Materiale calcestruzzo : C32/40

Tipo sezione : Tangent

Spaziatura : 1.7 m

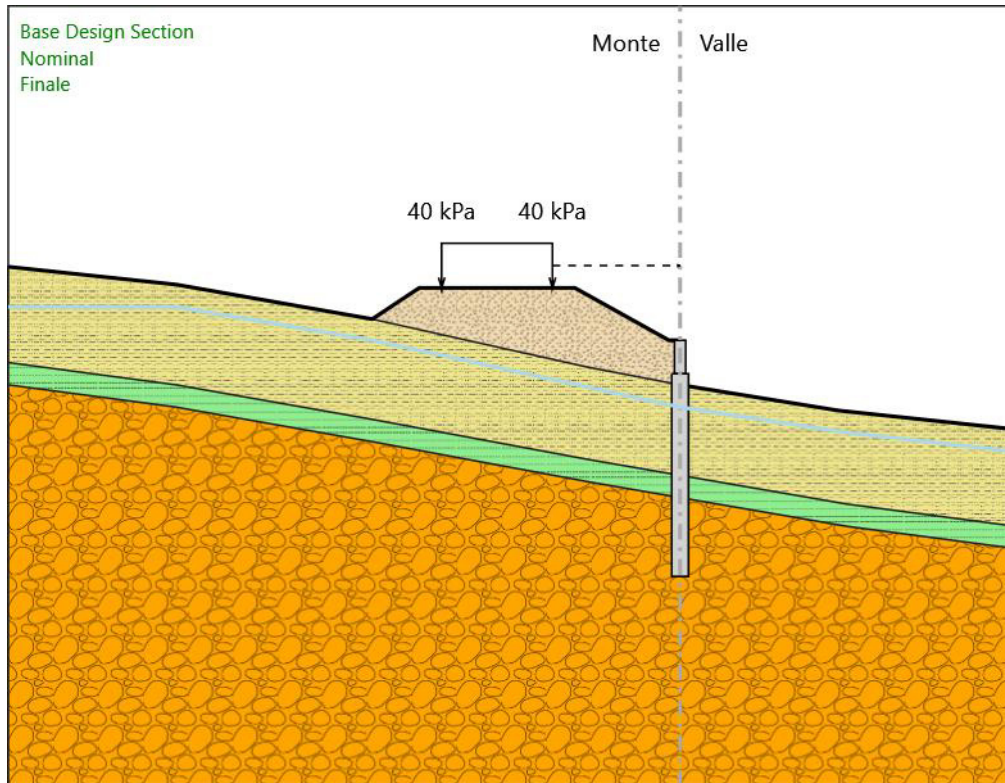
Diametro : 1.5 m

Efficacia : 1



4. Fasi di Calcolo

4.1. Finale



Finale

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -3 m

Sezione : Paramento

Paratia : WallElement_New

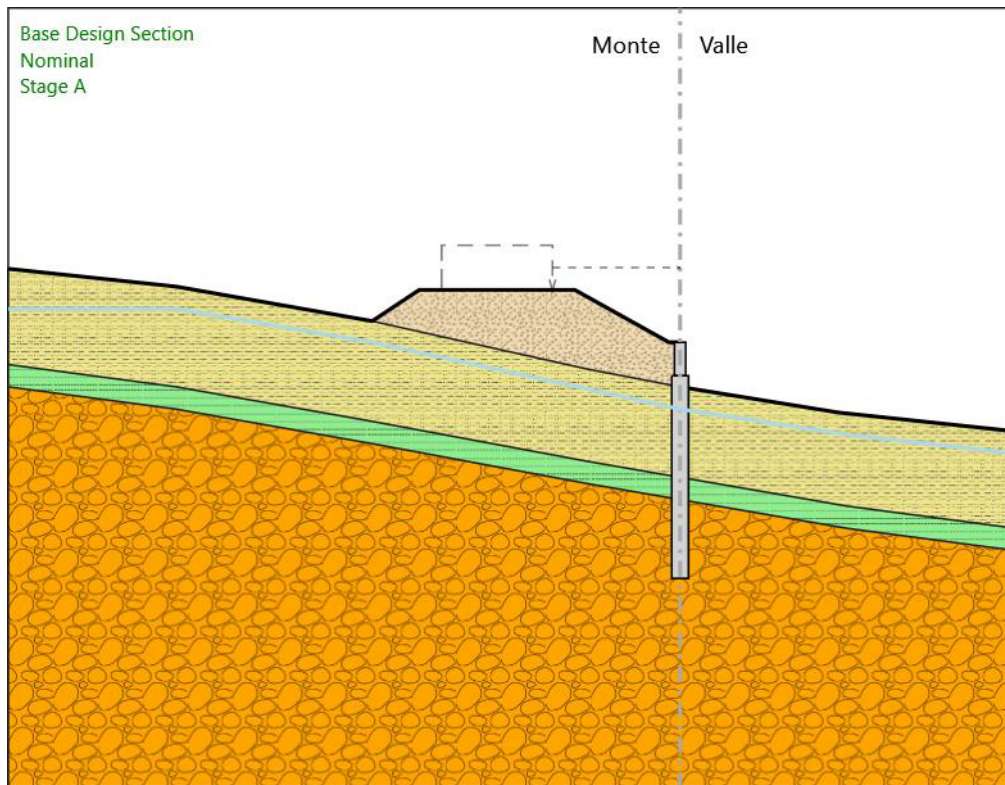
X : 0 m

Quota in alto : -3 m

Quota di fondo : -21.2 m

Sezione : Pali1500

4.2. Stage A



Stage A

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -3 m

Sezione : Paramento

Paratia : WallElement_New

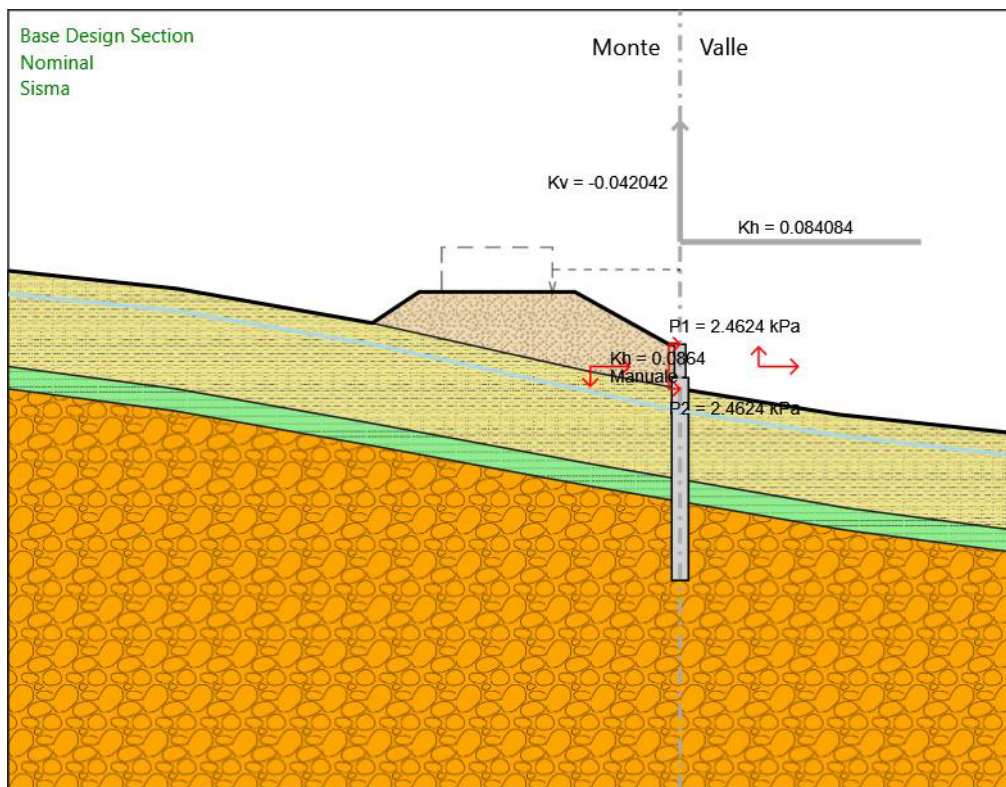
X : 0 m

Quota in alto : -3 m

Quota di fondo : -21.2 m

Sezione : Pali1500

4.3. Sisma



Sisma

Elementi strutturali

Paratia : WallElement

X : 0 m

Quota in alto : 0 m

Quota di fondo : -3 m

Sezione : Paramento

Paratia : WallElement_New

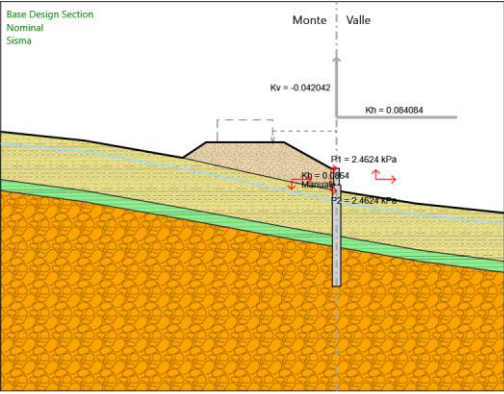
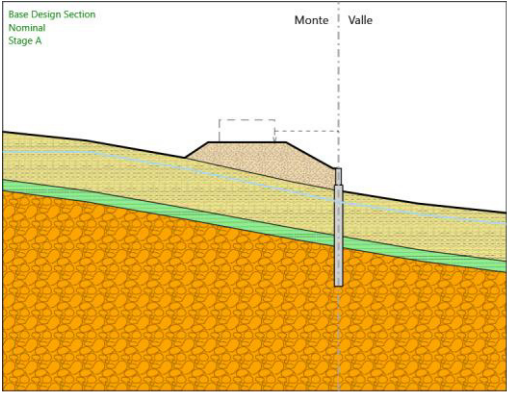
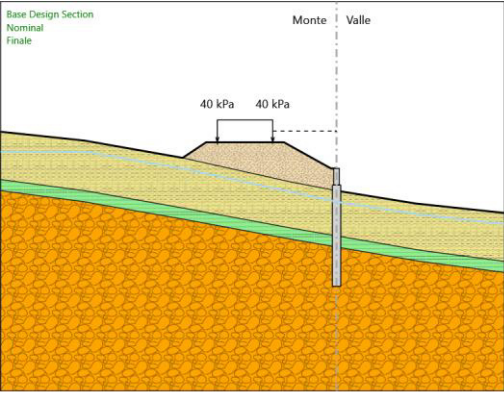
X : 0 m

Quota in alto : -3 m

Quota di fondo : -21.2 m

Sezione : Pali1500

4.4. Tabella Configurazione Stage (Nominal)



5. Grafici dei Risultati

5.1. Design Assumption : Nominal

5.1.1. Tabella Spostamento Nominal - LEFT Stage: Finale

Design Assumption: Nominal	Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Finale	0	20.14
Finale	-0.2	19.85
Finale	-0.4	19.55
Finale	-0.6	19.25
Finale	-0.8	18.96
Finale	-1	18.66
Finale	-1.2	18.37
Finale	-1.4	18.07
Finale	-1.6	17.77
Finale	-1.8	17.48
Finale	-2	17.18
Finale	-2.2	16.89
Finale	-2.4	16.59
Finale	-2.6	16.3
Finale	-2.8	16
Finale	-3	15.71
Finale	-3.2	15.41
Finale	-3.4	15.12
Finale	-3.6	14.82
Finale	-3.8	14.53
Finale	-4	14.24
Finale	-4.2	13.94
Finale	-4.4	13.65
Finale	-4.6	13.36
Finale	-4.8	13.07
Finale	-5	12.78
Finale	-5.2	12.49
Finale	-5.4	12.2
Finale	-5.6	11.92
Finale	-5.8	11.63
Finale	-6	11.35
Finale	-6.2	11.06
Finale	-6.4	10.78
Finale	-6.6	10.5
Finale	-6.8	10.23
Finale	-7	9.95
Finale	-7.2	9.68
Finale	-7.4	9.41
Finale	-7.6	9.14
Finale	-7.8	8.87
Finale	-8	8.61
Finale	-8.2	8.34
Finale	-8.4	8.08
Finale	-8.6	7.83
Finale	-8.8	7.57
Finale	-9	7.32
Finale	-9.2	7.07
Finale	-9.4	6.82
Finale	-9.6	6.58
Finale	-9.8	6.34
Finale	-10	6.1
Finale	-10.2	5.87
Finale	-10.4	5.63
Finale	-10.6	5.41
Finale	-10.8	5.18
Finale	-11	4.96
Finale	-11.2	4.74
Finale	-11.4	4.53
Finale	-11.6	4.32
Finale	-11.8	4.11
Finale	-12	3.91

Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Finale	-12.2	3.71
Finale	-12.4	3.51
Finale	-12.6	3.33
Finale	-12.8	3.14
Finale	-13	2.96
Finale	-13.2	2.79
Finale	-13.4	2.62
Finale	-13.6	2.46
Finale	-13.8	2.3
Finale	-14	2.15
Finale	-14.2	2
Finale	-14.4	1.86
Finale	-14.6	1.73
Finale	-14.8	1.6
Finale	-15	1.48
Finale	-15.2	1.36
Finale	-15.4	1.25
Finale	-15.6	1.14
Finale	-15.8	1.04
Finale	-16	0.94
Finale	-16.2	0.86
Finale	-16.4	0.77
Finale	-16.6	0.69
Finale	-16.8	0.62
Finale	-17	0.54
Finale	-17.2	0.48
Finale	-17.4	0.42
Finale	-17.6	0.36
Finale	-17.8	0.3
Finale	-18	0.25
Finale	-18.2	0.2
Finale	-18.4	0.15
Finale	-18.6	0.11
Finale	-18.8	0.07
Finale	-19	0.03
Finale	-19.2	-0.01
Finale	-19.4	-0.05
Finale	-19.6	-0.09
Finale	-19.8	-0.12
Finale	-20	-0.16
Finale	-20.2	-0.19
Finale	-20.4	-0.23
Finale	-20.6	-0.26
Finale	-20.8	-0.29
Finale	-21	-0.33
Finale	-21.2	-0.36

5.1.2. Tabella Spostamento Nominal - LEFT Stage: Stage A

Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Stage A	0	20.13
Stage A	-0.2	19.83
Stage A	-0.4	19.54
Stage A	-0.6	19.24
Stage A	-0.8	18.94
Stage A	-1	18.65
Stage A	-1.2	18.35
Stage A	-1.4	18.06
Stage A	-1.6	17.76
Stage A	-1.8	17.46
Stage A	-2	17.17
Stage A	-2.2	16.87
Stage A	-2.4	16.58
Stage A	-2.6	16.28
Stage A	-2.8	15.99
Stage A	-3	15.69
Stage A	-3.2	15.4
Stage A	-3.4	15.1
Stage A	-3.6	14.81
Stage A	-3.8	14.52
Stage A	-4	14.22
Stage A	-4.2	13.93
Stage A	-4.4	13.64
Stage A	-4.6	13.34
Stage A	-4.8	13.05
Stage A	-5	12.76
Stage A	-5.2	12.47
Stage A	-5.4	12.19
Stage A	-5.6	11.9
Stage A	-5.8	11.61
Stage A	-6	11.33
Stage A	-6.2	11.05
Stage A	-6.4	10.77
Stage A	-6.6	10.49
Stage A	-6.8	10.21
Stage A	-7	9.93
Stage A	-7.2	9.66
Stage A	-7.4	9.39
Stage A	-7.6	9.12
Stage A	-7.8	8.85
Stage A	-8	8.59
Stage A	-8.2	8.33
Stage A	-8.4	8.07
Stage A	-8.6	7.81
Stage A	-8.8	7.55
Stage A	-9	7.3
Stage A	-9.2	7.05
Stage A	-9.4	6.81
Stage A	-9.6	6.56
Stage A	-9.8	6.32
Stage A	-10	6.08
Stage A	-10.2	5.85
Stage A	-10.4	5.62
Stage A	-10.6	5.39
Stage A	-10.8	5.16
Stage A	-11	4.94
Stage A	-11.2	4.72
Stage A	-11.4	4.51
Stage A	-11.6	4.3
Stage A	-11.8	4.09
Stage A	-12	3.89
Stage A	-12.2	3.69
Stage A	-12.4	3.5
Stage A	-12.6	3.31
Stage A	-12.8	3.13
Stage A	-13	2.95
Stage A	-13.2	2.78

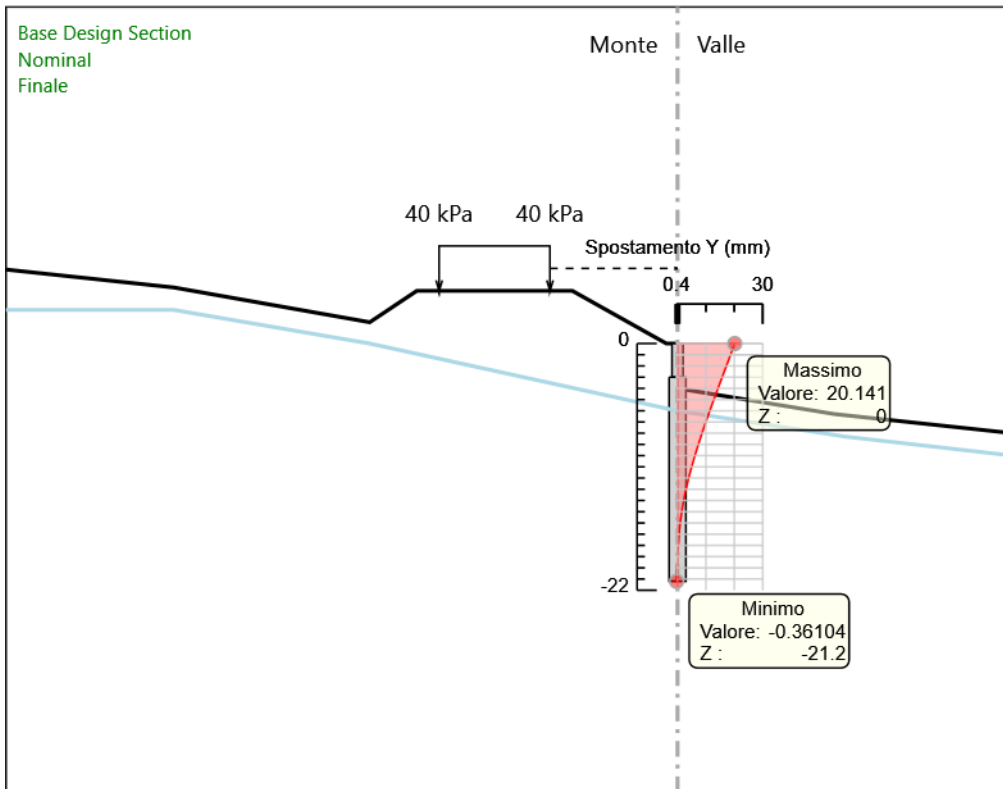
Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Stage A	-13.4	2.61
Stage A	-13.6	2.44
Stage A	-13.8	2.29
Stage A	-14	2.14
Stage A	-14.2	1.99
Stage A	-14.4	1.85
Stage A	-14.6	1.71
Stage A	-14.8	1.59
Stage A	-15	1.46
Stage A	-15.2	1.35
Stage A	-15.4	1.23
Stage A	-15.6	1.13
Stage A	-15.8	1.03
Stage A	-16	0.93
Stage A	-16.2	0.84
Stage A	-16.4	0.76
Stage A	-16.6	0.68
Stage A	-16.8	0.6
Stage A	-17	0.53
Stage A	-17.2	0.47
Stage A	-17.4	0.4
Stage A	-17.6	0.35
Stage A	-17.8	0.29
Stage A	-18	0.24
Stage A	-18.2	0.19
Stage A	-18.4	0.14
Stage A	-18.6	0.1
Stage A	-18.8	0.06
Stage A	-19	0.02
Stage A	-19.2	-0.02
Stage A	-19.4	-0.06
Stage A	-19.6	-0.1
Stage A	-19.8	-0.13
Stage A	-20	-0.17
Stage A	-20.2	-0.2
Stage A	-20.4	-0.24
Stage A	-20.6	-0.27
Stage A	-20.8	-0.3
Stage A	-21	-0.34
Stage A	-21.2	-0.37

5.1.3. Tabella Spostamento Nominal - LEFT Stage: Sisma

Design Assumption: Nominal		Tipo Risultato: Spostamento	Muro: LEFT
Stage	Z (m)		Spostamento orizzontale (mm)
Sisma	0		24.27
Sisma	-0.2		23.9
Sisma	-0.4		23.53
Sisma	-0.6		23.16
Sisma	-0.8		22.78
Sisma	-1		22.41
Sisma	-1.2		22.04
Sisma	-1.4		21.67
Sisma	-1.6		21.3
Sisma	-1.8		20.92
Sisma	-2		20.55
Sisma	-2.2		20.18
Sisma	-2.4		19.81
Sisma	-2.6		19.44
Sisma	-2.8		19.07
Sisma	-3		18.7
Sisma	-3.2		18.33
Sisma	-3.4		17.96
Sisma	-3.6		17.59
Sisma	-3.8		17.23
Sisma	-4		16.86
Sisma	-4.2		16.49
Sisma	-4.4		16.13
Sisma	-4.6		15.76
Sisma	-4.8		15.4
Sisma	-5		15.04
Sisma	-5.2		14.68
Sisma	-5.4		14.32
Sisma	-5.6		13.96
Sisma	-5.8		13.6
Sisma	-6		13.25
Sisma	-6.2		12.9
Sisma	-6.4		12.55
Sisma	-6.6		12.2
Sisma	-6.8		11.86
Sisma	-7		11.52
Sisma	-7.2		11.18
Sisma	-7.4		10.84
Sisma	-7.6		10.51
Sisma	-7.8		10.18
Sisma	-8		9.86
Sisma	-8.2		9.54
Sisma	-8.4		9.22
Sisma	-8.6		8.91
Sisma	-8.8		8.59
Sisma	-9		8.29
Sisma	-9.2		7.99
Sisma	-9.4		7.69
Sisma	-9.6		7.39
Sisma	-9.8		7.11
Sisma	-10		6.82
Sisma	-10.2		6.54
Sisma	-10.4		6.26
Sisma	-10.6		5.99
Sisma	-10.8		5.73
Sisma	-11		5.47
Sisma	-11.2		5.21
Sisma	-11.4		4.96
Sisma	-11.6		4.71
Sisma	-11.8		4.47
Sisma	-12		4.24
Sisma	-12.2		4.01
Sisma	-12.4		3.79
Sisma	-12.6		3.57
Sisma	-12.8		3.36
Sisma	-13		3.16
Sisma	-13.2		2.96

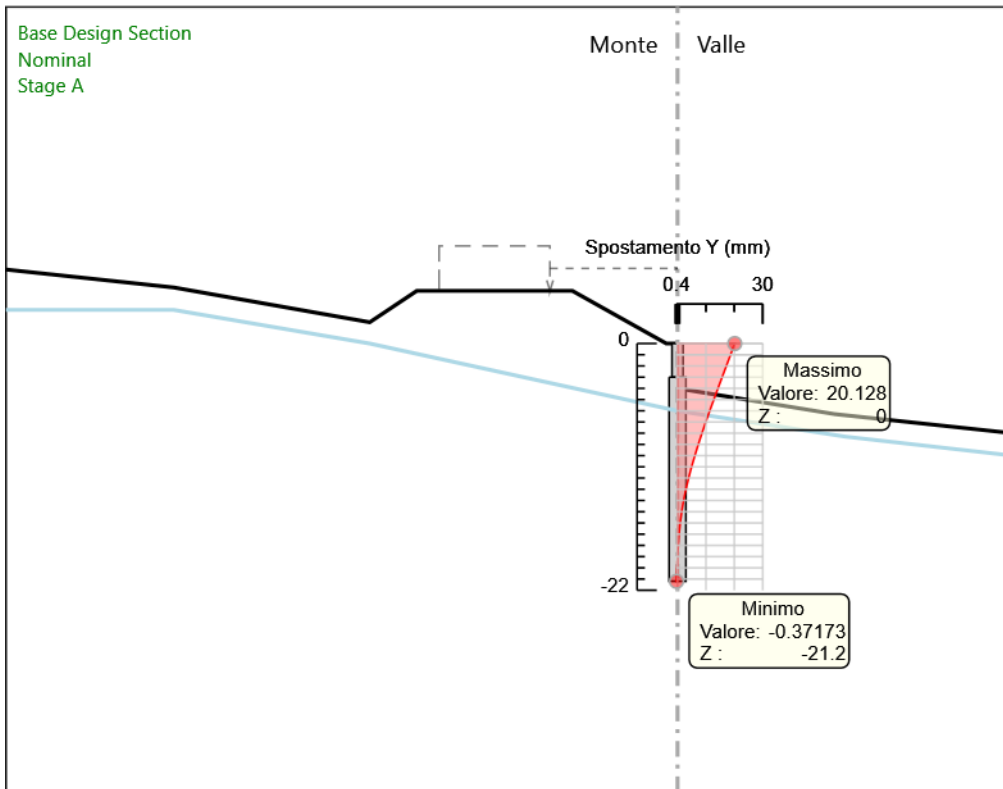
Design Assumption: Nominal Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Sisma	-13.4	2.78
Sisma	-13.6	2.59
Sisma	-13.8	2.42
Sisma	-14	2.25
Sisma	-14.2	2.08
Sisma	-14.4	1.93
Sisma	-14.6	1.78
Sisma	-14.8	1.64
Sisma	-15	1.5
Sisma	-15.2	1.38
Sisma	-15.4	1.26
Sisma	-15.6	1.14
Sisma	-15.8	1.03
Sisma	-16	0.93
Sisma	-16.2	0.83
Sisma	-16.4	0.74
Sisma	-16.6	0.66
Sisma	-16.8	0.58
Sisma	-17	0.51
Sisma	-17.2	0.44
Sisma	-17.4	0.37
Sisma	-17.6	0.31
Sisma	-17.8	0.25
Sisma	-18	0.2
Sisma	-18.2	0.15
Sisma	-18.4	0.1
Sisma	-18.6	0.06
Sisma	-18.8	0.01
Sisma	-19	-0.03
Sisma	-19.2	-0.07
Sisma	-19.4	-0.1
Sisma	-19.6	-0.14
Sisma	-19.8	-0.18
Sisma	-20	-0.21
Sisma	-20.2	-0.24
Sisma	-20.4	-0.28
Sisma	-20.6	-0.31
Sisma	-20.8	-0.35
Sisma	-21	-0.38
Sisma	-21.2	-0.41

5.1.4. Grafico Spostamento orizzontale Nominal - Stage: Finale



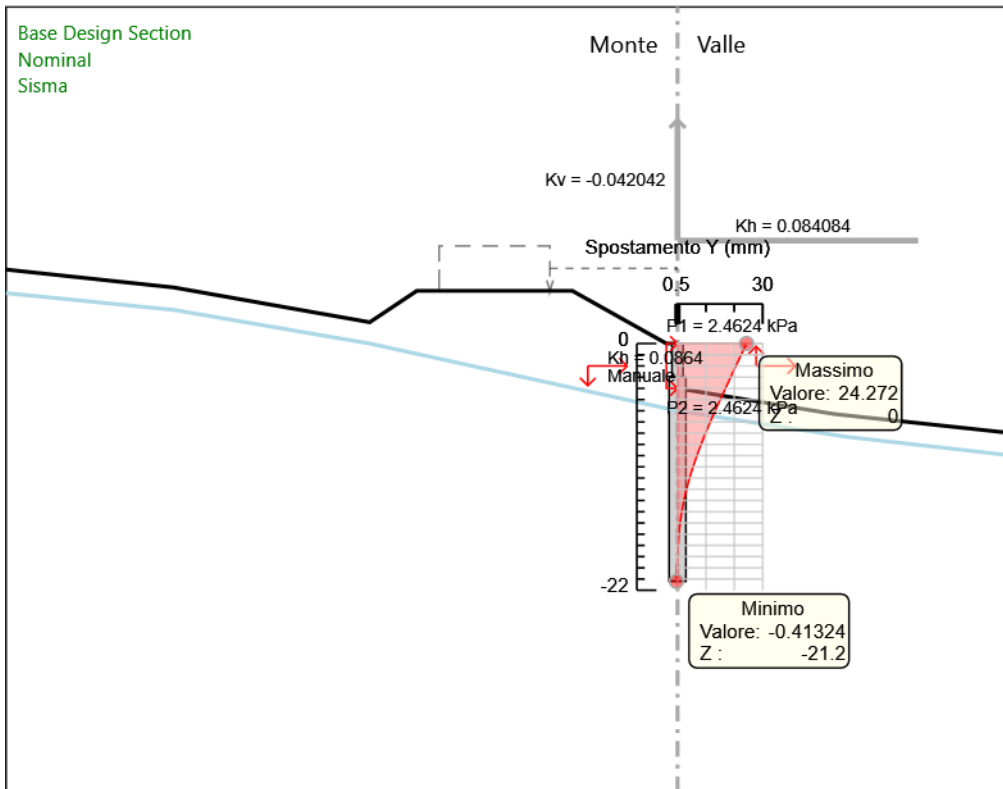
Design Assumption: Nominal
Stage: Finale
Spostamento orizzontale

5.1.5. Grafico Spostamento orizzontale Nominal - Stage: Stage A



Design Assumption: Nominal
Stage: Stage A
Spostamento orizzontale

5.1.6. Grafico Spostamento orizzontale Nominal - Stage: Sisma



Design Assumption: Nominal
Stage: Sisma
Spostamento orizzontale

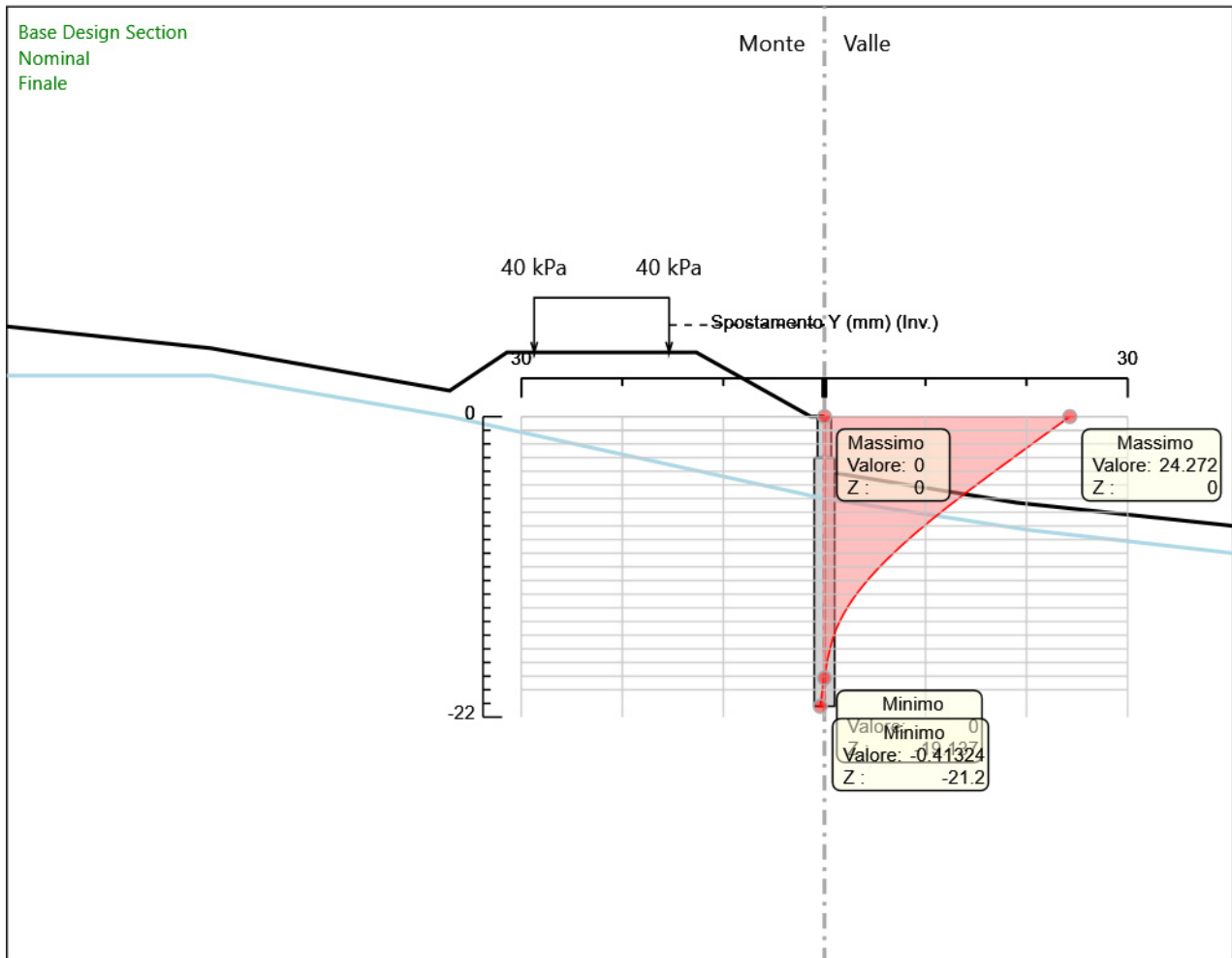
5.2. Inviluppi Spostamento Nominal

5.2.1. Tabella Inviluppi Spostamento orizzontale Nominal Left Wall

Selected Design Assumptions Inviluppi: Spostamento orizzontale Muro: LEFT		
Z (m)	Lato sinistro (mm)	Lato destro (mm)
0	0	24.27
-0.2	0	23.9
-0.4	0	23.53
-0.6	0	23.16
-0.8	0	22.78
-1	0	22.41
-1.2	0	22.04
-1.4	0	21.67
-1.6	0	21.3
-1.8	0	20.92
-2	0	20.55
-2.2	0	20.18
-2.4	0	19.81
-2.6	0	19.44
-2.8	0	19.07
-3	0	18.7
-3.2	0	18.33
-3.4	0	17.96
-3.6	0	17.59
-3.8	0	17.23
-4	0	16.86
-4.2	0	16.49
-4.4	0	16.13
-4.6	0	15.76
-4.8	0	15.4
-5	0	15.04
-5.2	0	14.68
-5.4	0	14.32
-5.6	0	13.96
-5.8	0	13.6
-6	0	13.25
-6.2	0	12.9
-6.4	0	12.55
-6.6	0	12.2
-6.8	0	11.86
-7	0	11.52
-7.2	0	11.18
-7.4	0	10.84
-7.6	0	10.51
-7.8	0	10.18
-8	0	9.86
-8.2	0	9.54
-8.4	0	9.22
-8.6	0	8.91
-8.8	0	8.59
-9	0	8.29
-9.2	0	7.99
-9.4	0	7.69
-9.6	0	7.39
-9.8	0	7.11
-10	0	6.82
-10.2	0	6.54
-10.4	0	6.26
-10.6	0	5.99
-10.8	0	5.73
-11	0	5.47
-11.2	0	5.21
-11.4	0	4.96
-11.6	0	4.71
-11.8	0	4.47
-12	0	4.24
-12.2	0	4.01
-12.4	0	3.79
-12.6	0	3.57

Selected Design Assumptions Involupi: Spostamento orizzontale Muro: LEFT		
Z (m)	Lato sinistro (mm)	Lato destro (mm)
-12.8	0	3.36
-13	0	3.16
-13.2	0	2.96
-13.4	0	2.78
-13.6	0	2.59
-13.8	0	2.42
-14	0	2.25
-14.2	0	2.08
-14.4	0	1.93
-14.6	0	1.78
-14.8	0	1.64
-15	0	1.5
-15.2	0	1.38
-15.4	0	1.26
-15.6	0	1.14
-15.8	0	1.04
-16	0	0.94
-16.2	0	0.86
-16.4	0	0.77
-16.6	0	0.69
-16.8	0	0.62
-17	0	0.54
-17.2	0	0.48
-17.4	0	0.42
-17.6	0	0.36
-17.8	0	0.3
-18	0	0.25
-18.2	0	0.2
-18.4	0	0.15
-18.6	0	0.11
-18.8	0	0.07
-19	-0.03	0.03
-19.137	0	0
-19.2	-0.07	0
-19.4	-0.1	0
-19.6	-0.14	0
-19.8	-0.18	0
-20	-0.21	0
-20.2	-0.24	0
-20.4	-0.28	0
-20.6	-0.31	0
-20.8	-0.35	0
-21	-0.38	0
-21.2	-0.41	0

5.2.2. Grafico Involuppi Spostamento



Spostamento

5.3. Risultati Paratia

5.3.1. Tabella Risultati Paratia Nominal - Stage: Finale

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	0	0	-0.01
Finale	-0.2	0	-0.01
Finale	-0.4	-0.05	-0.24
Finale	-0.6	-0.18	-0.67
Finale	-0.8	-0.44	-1.3
Finale	-1	-0.87	-2.14
Finale	-1.2	-1.51	-3.19
Finale	-1.4	-2.4	-4.44
Finale	-1.6	-3.58	-5.9
Finale	-1.8	-5.09	-7.56
Finale	-2	-6.98	-9.43
Finale	-2.2	-9.28	-11.5
Finale	-2.4	-12.03	-13.78
Finale	-2.6	-15.29	-16.26
Finale	-2.8	-19.08	-18.95
Finale	-3	-23.45	-21.85

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-3	-23.45	-24.95
Finale	-3.2	-28.44	-24.95
Finale	-3.4	-34.09	-28.26
Finale	-3.6	-40.44	-31.78
Finale	-3.8	-47.54	-35.5
Finale	-4	-55.43	-39.42
Finale	-4.2	-65.07	-48.23
Finale	-4.4	-76.23	-55.76
Finale	-4.6	-88.63	-62.02
Finale	-4.8	-102.03	-67
Finale	-5	-116.17	-70.7
Finale	-5.2	-130.8	-73.14
Finale	-5.4	-145.65	-74.29
Finale	-5.6	-160.49	-74.17
Finale	-5.8	-175.04	-72.78
Finale	-6	-189.07	-70.11
Finale	-6.2	-202.32	-66.24
Finale	-6.4	-214.63	-61.55
Finale	-6.6	-226.03	-57
Finale	-6.8	-236.61	-52.94
Finale	-7	-246.49	-49.36
Finale	-7.2	-255.74	-46.25
Finale	-7.4	-264.46	-43.62
Finale	-7.6	-272.75	-41.46
Finale	-7.8	-280.7	-39.77
Finale	-8	-288.41	-38.54
Finale	-8.2	-295.97	-37.78
Finale	-8.4	-303.46	-37.47
Finale	-8.6	-310.99	-37.62
Finale	-8.8	-318.63	-38.22
Finale	-9	-326.48	-39.27
Finale	-9.2	-334.64	-40.79
Finale	-9.4	-343.2	-42.78
Finale	-9.6	-352.25	-45.23
Finale	-9.8	-361.88	-48.14
Finale	-10	-372.18	-51.51
Finale	-10.2	-383.24	-55.32
Finale	-10.4	-395.16	-59.58
Finale	-10.6	-408.01	-64.28
Finale	-10.8	-421.89	-69.41
Finale	-11	-436.89	-74.96
Finale	-11.2	-453.08	-80.95
Finale	-11.4	-470.55	-87.34
Finale	-11.6	-489.38	-94.15
Finale	-11.8	-509.65	-101.36
Finale	-12	-531.44	-108.98

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-12.2	-554.84	-116.98
Finale	-12.4	-576.07	-106.16
Finale	-12.6	-595.33	-96.3
Finale	-12.8	-612.81	-87.39
Finale	-13	-628.69	-79.4
Finale	-13.2	-643.15	-72.31
Finale	-13.4	-656.37	-66.09
Finale	-13.6	-668.51	-60.71
Finale	-13.8	-679.74	-56.16
Finale	-14	-690.22	-52.4
Finale	-14.2	-700.11	-49.41
Finale	-14.4	-706.24	-30.68
Finale	-14.6	-708.81	-12.84
Finale	-14.8	-707.98	4.14
Finale	-15	-703.92	20.3
Finale	-15.2	-696.79	35.68
Finale	-15.4	-686.72	50.32
Finale	-15.6	-673.88	64.24
Finale	-15.8	-658.38	77.49
Finale	-16	-640.36	90.1
Finale	-16.2	-619.94	102.1
Finale	-16.4	-597.23	113.52
Finale	-16.6	-572.35	124.41
Finale	-16.8	-545.4	134.78
Finale	-17	-516.46	144.69
Finale	-17.2	-485.67	153.92
Finale	-17.4	-453.46	161.08
Finale	-17.6	-420.19	166.32
Finale	-17.8	-386.25	169.73
Finale	-18	-351.96	171.44
Finale	-18.2	-317.65	171.53
Finale	-18.4	-283.63	170.1
Finale	-18.6	-250.25	166.94
Finale	-18.8	-217.85	161.95
Finale	-19	-186.81	155.22
Finale	-19.2	-157.41	146.98
Finale	-19.4	-129.91	137.54
Finale	-19.6	-104.52	126.91
Finale	-19.8	-81.46	115.31
Finale	-20	-60.9	102.79
Finale	-20.2	-43.03	89.38
Finale	-20.4	-28.01	75.07
Finale	-20.6	-16.03	59.9
Finale	-20.8	-7.26	43.88
Finale	-21	-1.86	27
Finale	-21.2	0	9.28

5.3.2. Tabella Risultati Paratia Nominal - Stage: Stage A

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	0	0	0
Stage A	-0.2	0	0
Stage A	-0.2	0	0
Stage A	-0.4	-0.05	-0.24
Stage A	-0.6	-0.19	-0.68
Stage A	-0.8	-0.45	-1.33
Stage A	-1	-0.89	-2.18
Stage A	-1.2	-1.53	-3.23
Stage A	-1.4	-2.43	-4.49
Stage A	-1.6	-3.62	-5.94
Stage A	-1.8	-5.14	-7.6
Stage A	-2	-7.03	-9.46
Stage A	-2.2	-9.34	-11.53
Stage A	-2.4	-12.1	-13.8
Stage A	-2.6	-15.35	-16.27
Stage A	-2.8	-19.14	-18.94
Stage A	-3	-23.5	-21.81
Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-3	-23.5	-24.89
Stage A	-3.2	-28.48	-24.89
Stage A	-3.4	-34.11	-28.17
Stage A	-3.6	-40.45	-31.66
Stage A	-3.8	-47.51	-35.34
Stage A	-4	-55.36	-39.23
Stage A	-4.2	-64.98	-48.1
Stage A	-4.4	-76.12	-55.68
Stage A	-4.6	-88.52	-61.99
Stage A	-4.8	-101.92	-67.03
Stage A	-5	-116.08	-70.78
Stage A	-5.2	-130.73	-73.26
Stage A	-5.4	-145.62	-74.46
Stage A	-5.6	-160.5	-74.38
Stage A	-5.8	-175.1	-73.02
Stage A	-6	-189.18	-70.39
Stage A	-6.2	-202.49	-66.55
Stage A	-6.4	-214.86	-61.89
Stage A	-6.6	-226.34	-57.37
Stage A	-6.8	-237	-53.33
Stage A	-7	-246.95	-49.76
Stage A	-7.2	-256.29	-46.67
Stage A	-7.4	-265.1	-44.06
Stage A	-7.6	-273.48	-41.91
Stage A	-7.8	-281.53	-40.23
Stage A	-8	-289.33	-39.01
Stage A	-8.2	-296.98	-38.25
Stage A	-8.4	-304.57	-37.95
Stage A	-8.6	-312.19	-38.1
Stage A	-8.8	-319.93	-38.69
Stage A	-9	-327.87	-39.74
Stage A	-9.2	-336.12	-41.24
Stage A	-9.4	-344.76	-43.2
Stage A	-9.6	-353.88	-45.6
Stage A	-9.8	-363.57	-48.46
Stage A	-10	-373.92	-51.75
Stage A	-10.2	-385.02	-55.48
Stage A	-10.4	-396.95	-59.65
Stage A	-10.6	-409.8	-64.24
Stage A	-10.8	-423.65	-69.25
Stage A	-11	-438.58	-74.68
Stage A	-11.2	-454.69	-80.51
Stage A	-11.4	-472.04	-86.76
Stage A	-11.6	-490.72	-93.4
Stage A	-11.8	-510.8	-100.43
Stage A	-12	-532.38	-107.86
Stage A	-12.2	-555.51	-115.66
Stage A	-12.4	-576.5	-104.99

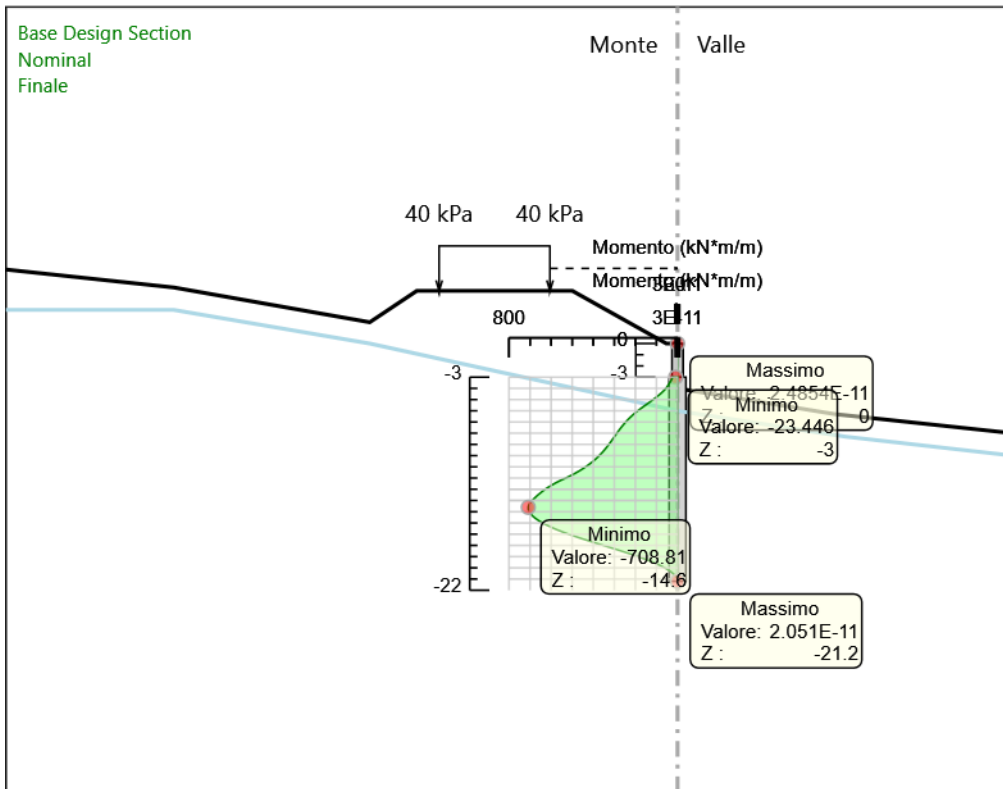
Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-12.6	-595.56	-95.27
Stage A	-12.8	-612.85	-86.48
Stage A	-13	-628.57	-78.59
Stage A	-13.2	-642.89	-71.59
Stage A	-13.4	-655.98	-65.44
Stage A	-13.6	-668	-60.12
Stage A	-13.8	-679.12	-55.61
Stage A	-14	-689.5	-51.88
Stage A	-14.2	-699.28	-48.9
Stage A	-14.4	-705.35	-30.32
Stage A	-14.6	-707.87	-12.61
Stage A	-14.8	-707.01	4.27
Stage A	-15	-702.95	20.33
Stage A	-15.2	-695.82	35.63
Stage A	-15.4	-685.78	50.19
Stage A	-15.6	-672.97	64.06
Stage A	-15.8	-657.52	77.27
Stage A	-16	-639.55	89.84
Stage A	-16.2	-619.19	101.82
Stage A	-16.4	-596.54	113.24
Stage A	-16.6	-571.71	124.12
Stage A	-16.8	-544.81	134.51
Stage A	-17	-515.93	144.43
Stage A	-17.2	-485.2	153.66
Stage A	-17.4	-453.03	160.84
Stage A	-17.6	-419.81	166.09
Stage A	-17.8	-385.91	169.52
Stage A	-18	-351.66	171.23
Stage A	-18.2	-317.39	171.34
Stage A	-18.4	-283.41	169.92
Stage A	-18.6	-250.05	166.78
Stage A	-18.8	-217.69	161.8
Stage A	-19	-186.68	155.08
Stage A	-19.2	-157.3	146.86
Stage A	-19.4	-129.82	137.43
Stage A	-19.6	-104.46	126.82
Stage A	-19.8	-81.41	115.23
Stage A	-20	-60.87	102.72
Stage A	-20.2	-43	89.32
Stage A	-20.4	-28	75.03
Stage A	-20.6	-16.02	59.86
Stage A	-20.8	-7.25	43.85
Stage A	-21	-1.86	26.99
Stage A	-21.2	0	9.28

5.3.3. Tabella Risultati Paratia Nominal - Stage: Sisma

Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	0	0	-0.46
Sisma	-0.2	-0.09	-0.46
Sisma	-0.4	-0.41	-1.59
Sisma	-0.6	-0.99	-2.92
Sisma	-0.8	-1.88	-4.45
Sisma	-1	-3.12	-6.18
Sisma	-1.2	-4.74	-8.12
Sisma	-1.4	-6.79	-10.25
Sisma	-1.6	-9.31	-12.59
Sisma	-1.8	-12.34	-15.14
Sisma	-2	-15.92	-17.88
Sisma	-2.2	-20.08	-20.82
Sisma	-2.4	-24.87	-23.97
Sisma	-2.6	-30.34	-27.32
Sisma	-2.8	-36.51	-30.88
Sisma	-3	-43.44	-34.63
Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-3	-43.44	-38.6
Sisma	-3.2	-51.16	-38.6
Sisma	-3.4	-59.71	-42.77
Sisma	-3.6	-69.14	-47.15
Sisma	-3.8	-79.49	-51.73
Sisma	-4	-90.79	-56.51
Sisma	-4.2	-103.92	-65.63
Sisma	-4.4	-118.57	-73.27
Sisma	-4.6	-134.55	-79.89
Sisma	-4.8	-151.65	-85.51
Sisma	-5	-169.67	-90.11
Sisma	-5.2	-188.41	-93.7
Sisma	-5.4	-207.67	-96.29
Sisma	-5.6	-227.24	-97.86
Sisma	-5.8	-246.93	-98.42
Sisma	-6	-266.52	-97.97
Sisma	-6.2	-285.84	-96.58
Sisma	-6.4	-304.76	-94.63
Sisma	-6.6	-323.23	-92.34
Sisma	-6.8	-341.18	-89.71
Sisma	-7	-358.52	-86.74
Sisma	-7.2	-375.21	-83.42
Sisma	-7.4	-391.16	-79.77
Sisma	-7.6	-406.32	-75.77
Sisma	-7.8	-420.65	-71.69
Sisma	-8	-434.29	-68.16
Sisma	-8.2	-447.32	-65.17
Sisma	-8.4	-459.86	-62.72
Sisma	-8.6	-472.02	-60.79
Sisma	-8.8	-483.9	-59.39
Sisma	-9	-495.6	-58.51
Sisma	-9.2	-507.23	-58.14
Sisma	-9.4	-518.89	-58.29
Sisma	-9.6	-530.67	-58.93
Sisma	-9.8	-542.69	-60.07
Sisma	-10	-555.03	-61.7
Sisma	-10.2	-567.79	-63.81
Sisma	-10.4	-581.07	-66.41
Sisma	-10.6	-594.97	-69.47
Sisma	-10.8	-609.57	-72.99
Sisma	-11	-624.96	-76.98
Sisma	-11.2	-641.24	-81.41
Sisma	-11.4	-658.5	-86.28
Sisma	-11.6	-676.82	-91.59
Sisma	-11.8	-696.28	-97.33
Sisma	-12	-716.98	-103.49
Sisma	-12.2	-738.99	-110.05
Sisma	-12.4	-758.39	-97
Sisma	-12.6	-775.4	-85.02

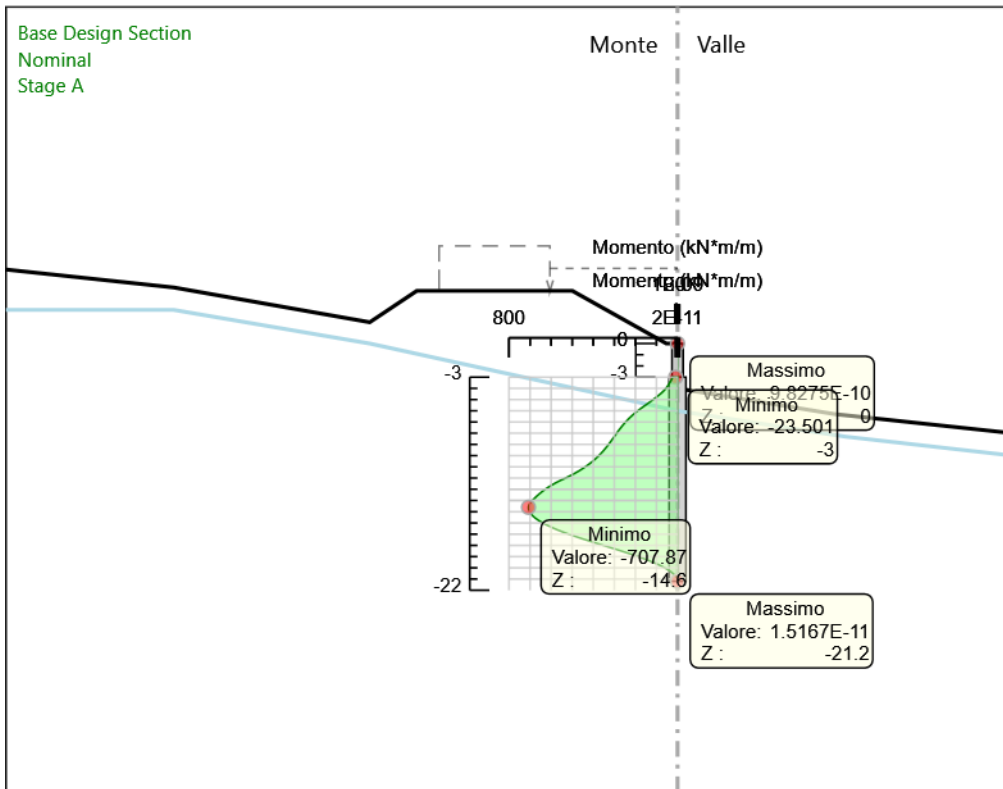
Design Assumption: Nominal Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-12.8	-790.22	-74.1
Sisma	-13	-803.06	-64.2
Sisma	-13.2	-814.12	-55.3
Sisma	-13.4	-823.59	-47.35
Sisma	-13.6	-831.65	-40.34
Sisma	-13.8	-838.5	-34.22
Sisma	-14	-844.29	-28.96
Sisma	-14.2	-849.2	-24.54
Sisma	-14.4	-850.08	-4.42
Sisma	-14.6	-847.14	14.72
Sisma	-14.8	-840.55	32.94
Sisma	-15	-830.49	50.28
Sisma	-15.2	-817.14	66.78
Sisma	-15.4	-800.65	82.46
Sisma	-15.6	-781.21	97.16
Sisma	-15.8	-759.03	110.92
Sisma	-16	-734.29	123.71
Sisma	-16.2	-707.17	135.61
Sisma	-16.4	-677.83	146.68
Sisma	-16.6	-646.43	156.98
Sisma	-16.8	-613.12	166.58
Sisma	-17	-578.01	175.53
Sisma	-17.2	-541.28	183.63
Sisma	-17.4	-503.37	189.55
Sisma	-17.6	-464.69	193.42
Sisma	-17.8	-425.61	195.38
Sisma	-18	-386.5	195.54
Sisma	-18.2	-347.7	194.03
Sisma	-18.4	-309.51	190.94
Sisma	-18.6	-272.29	186.08
Sisma	-18.8	-236.42	179.36
Sisma	-19	-202.25	170.86
Sisma	-19.2	-170.08	160.85
Sisma	-19.4	-140.12	149.78
Sisma	-19.6	-112.57	137.76
Sisma	-19.8	-87.61	124.82
Sisma	-20	-65.41	110.99
Sisma	-20.2	-46.15	96.28
Sisma	-20.4	-30.01	80.71
Sisma	-20.6	-17.16	64.28
Sisma	-20.8	-7.76	47
Sisma	-21	-1.98	28.87
Sisma	-21.2	0	9.91

5.3.4. Grafico Momento Nominal - Stage: Finale



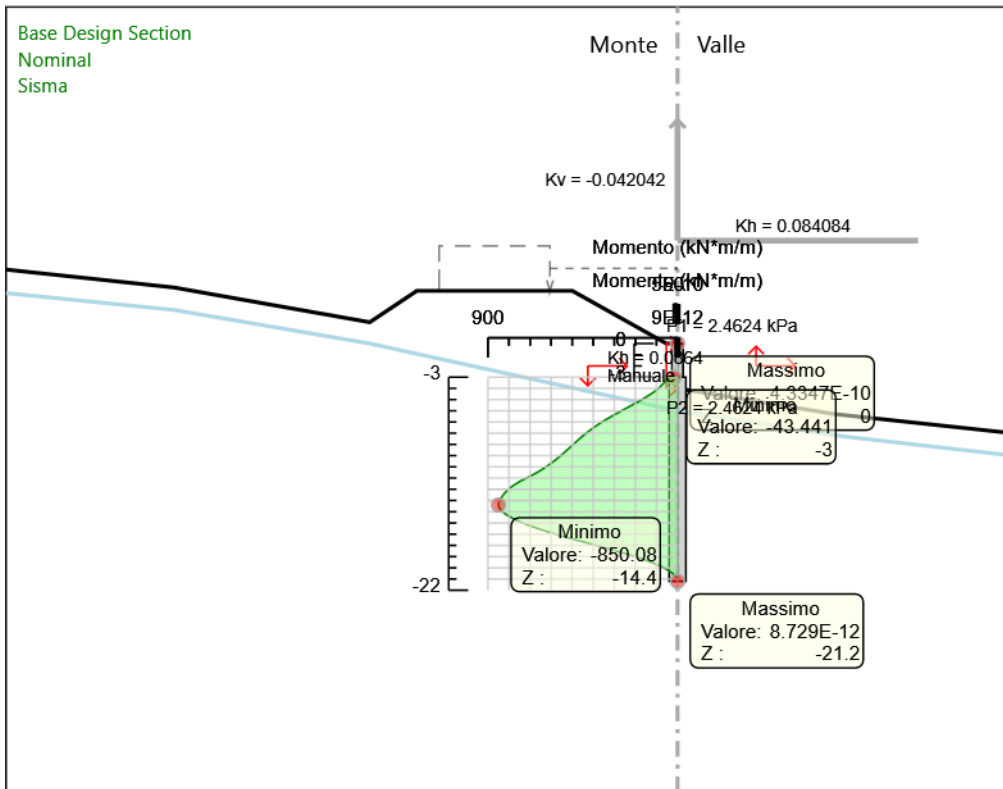
Design Assumption: Nominal
Stage: Finale
Momento

5.3.5. Grafico Momento Nominal - Stage: Stage A



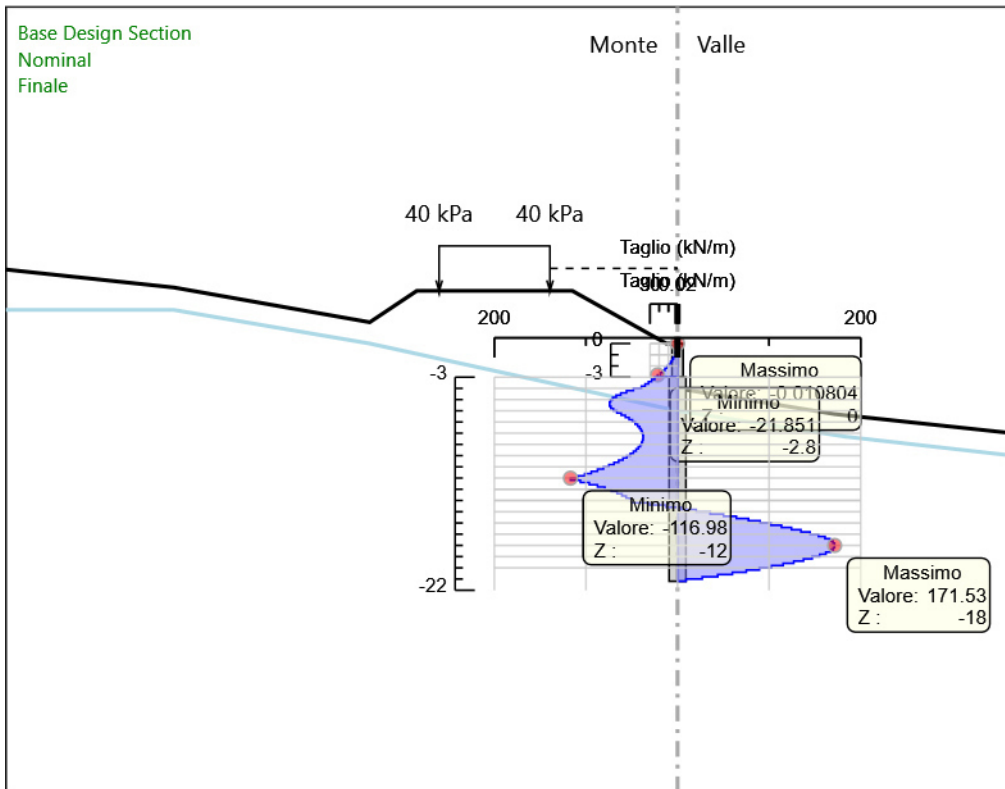
Design Assumption: Nominal
Stage: Stage A
Momento

5.3.6. Grafico Momento Nominal - Stage: Sisma



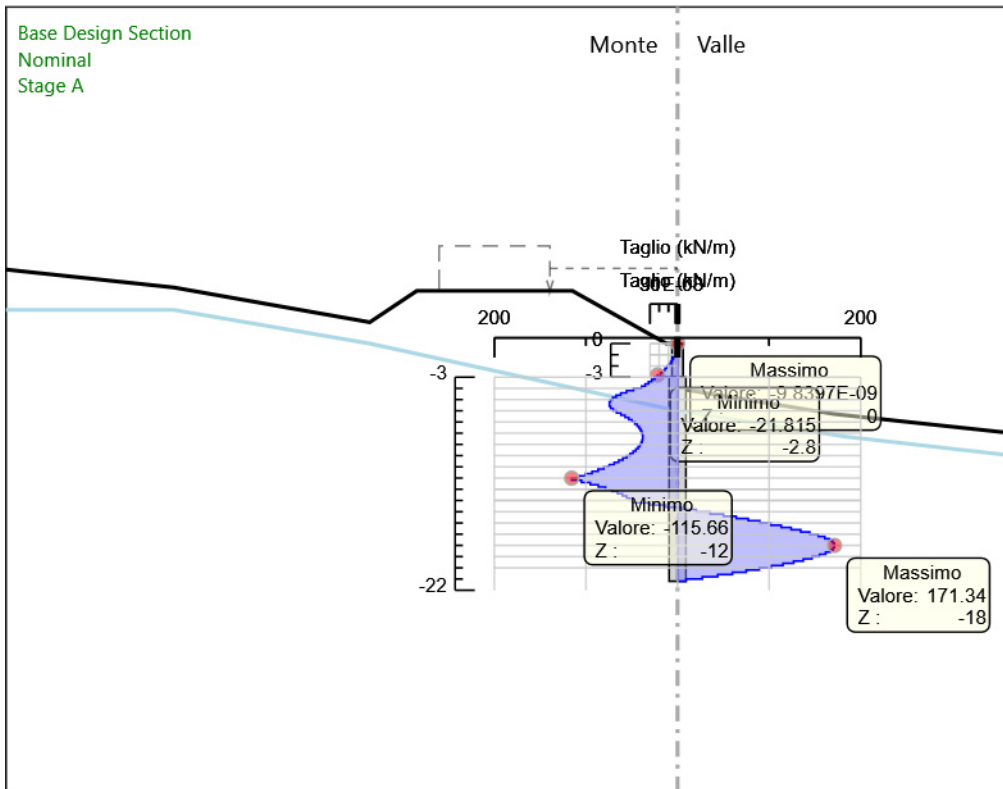
Design Assumption: Nominal
Stage: Sisma
Momento

5.3.7. Grafico Taglio Nominal - Stage: Finale



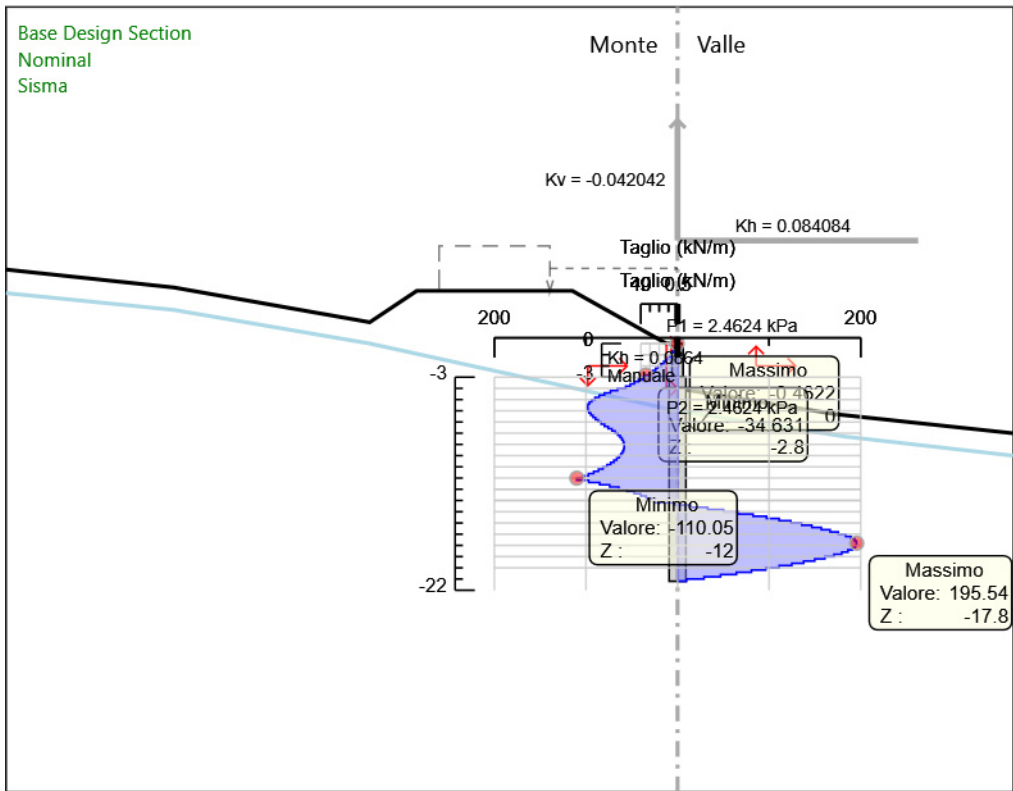
Design Assumption: Nominal
Stage: Finale
Taglio

5.3.8. Grafico Taglio Nominal - Stage: Stage A



Design Assumption: Nominal
Stage: Stage A
Taglio

5.3.9. Grafico Taglio Nominal - Stage: Sisma



Design Assumption: Nominal
Stage: Sisma
Taglio

5.4. Involuppi Risultati Paratia Nominal

5.4.1. Tabella Involuppi Momento Nominal WallElement

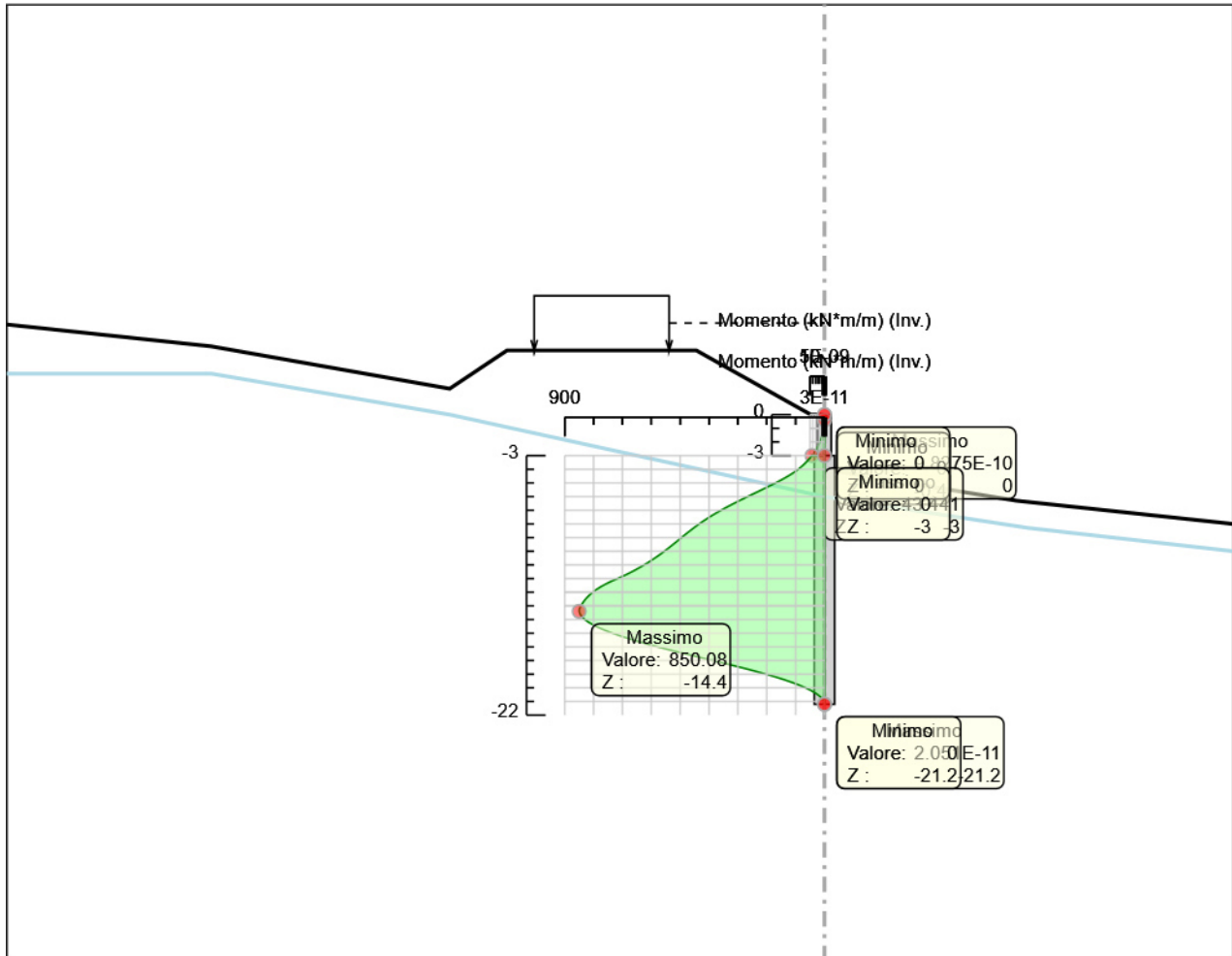
Selected Design Assumptions	Involuppi: Momento	Muro: WallElement
Z (m)	Lato sinistro (kN*m/m)	Lato destro (kN*m/m)
0	0	0
-0.2	0.092	0
-0.4	0.41	0
-0.6	0.994	0
-0.8	1.883	0
-1	3.12	0
-1.2	4.743	0
-1.4	6.794	0
-1.6	9.312	0
-1.8	12.339	0
-2	15.915	0
-2.2	20.08	0
-2.4	24.875	0
-2.6	30.34	0
-2.8	36.515	0
-3	43.441	0

5.4.2. Tabella Involuppi Momento Nominal WallElement_New

Selected Design Assumptions	Involuppi: Momento	Muro: WallElement_New
Z (m)	Lato sinistro (kN*m/m)	Lato destro (kN*m/m)
-3	43.441	0
-3.2	51.16	0
-3.4	59.714	0
-3.6	69.144	0
-3.8	79.491	0
-4	90.793	0
-4.2	103.919	0
-4.4	118.572	0
-4.6	134.55	0
-4.8	151.652	0
-5	169.674	0
-5.2	188.415	0
-5.4	207.672	0
-5.6	227.244	0
-5.8	246.928	0
-6	266.522	0
-6.2	285.838	0
-6.4	304.765	0
-6.6	323.234	0
-6.8	341.176	0
-7	358.524	0
-7.2	375.209	0
-7.4	391.163	0
-7.6	406.316	0
-7.8	420.654	0
-8	434.287	0
-8.2	447.321	0
-8.4	459.864	0
-8.6	472.022	0
-8.8	483.901	0
-9	495.603	0
-9.2	507.232	0
-9.4	518.889	0
-9.6	530.675	0
-9.8	542.689	0
-10	555.029	0
-10.2	567.792	0
-10.4	581.073	0
-10.6	594.966	0
-10.8	609.565	0
-11	624.961	0
-11.2	641.242	0
-11.4	658.499	0
-11.6	676.818	0
-11.8	696.284	0
-12	716.981	0
-12.2	738.992	0
-12.4	758.391	0
-12.6	775.396	0
-12.8	790.216	0
-13	803.057	0
-13.2	814.117	0
-13.4	823.588	0
-13.6	831.654	0
-13.8	838.498	0
-14	844.29	0
-14.2	849.197	0
-14.4	850.081	0
-14.6	847.137	0
-14.8	840.549	0
-15	830.494	0
-15.2	817.138	0
-15.4	800.646	0
-15.6	781.215	0
-15.8	759.031	0
-16	734.288	0
-16.2	707.165	0

Selected Design Assumptions		
Z (m)	Inviluppi: Momento Lato sinistro (kN*m/m)	Muro: WallElement_New Lato destro (kN*m/m)
-16.4	677.829	0
-16.6	646.432	0
-16.8	613.116	0
-17	578.011	0
-17.2	541.284	0
-17.4	503.373	0
-17.6	464.689	0
-17.8	425.611	0
-18	386.502	0
-18.2	347.696	0
-18.4	309.509	0
-18.6	272.293	0
-18.8	236.421	0
-19	202.248	0
-19.2	170.078	0
-19.4	140.122	0
-19.6	112.571	0
-19.8	87.607	0
-20	65.409	0
-20.2	46.153	0
-20.4	30.011	0
-20.6	17.156	0
-20.8	7.756	0
-21	1.981	0
-21.2	0	0

5.4.3. Grafico Involuppi Momento Nominal



Momento

5.4.4. Tabella Involuppi Taglio Nominal WallElement

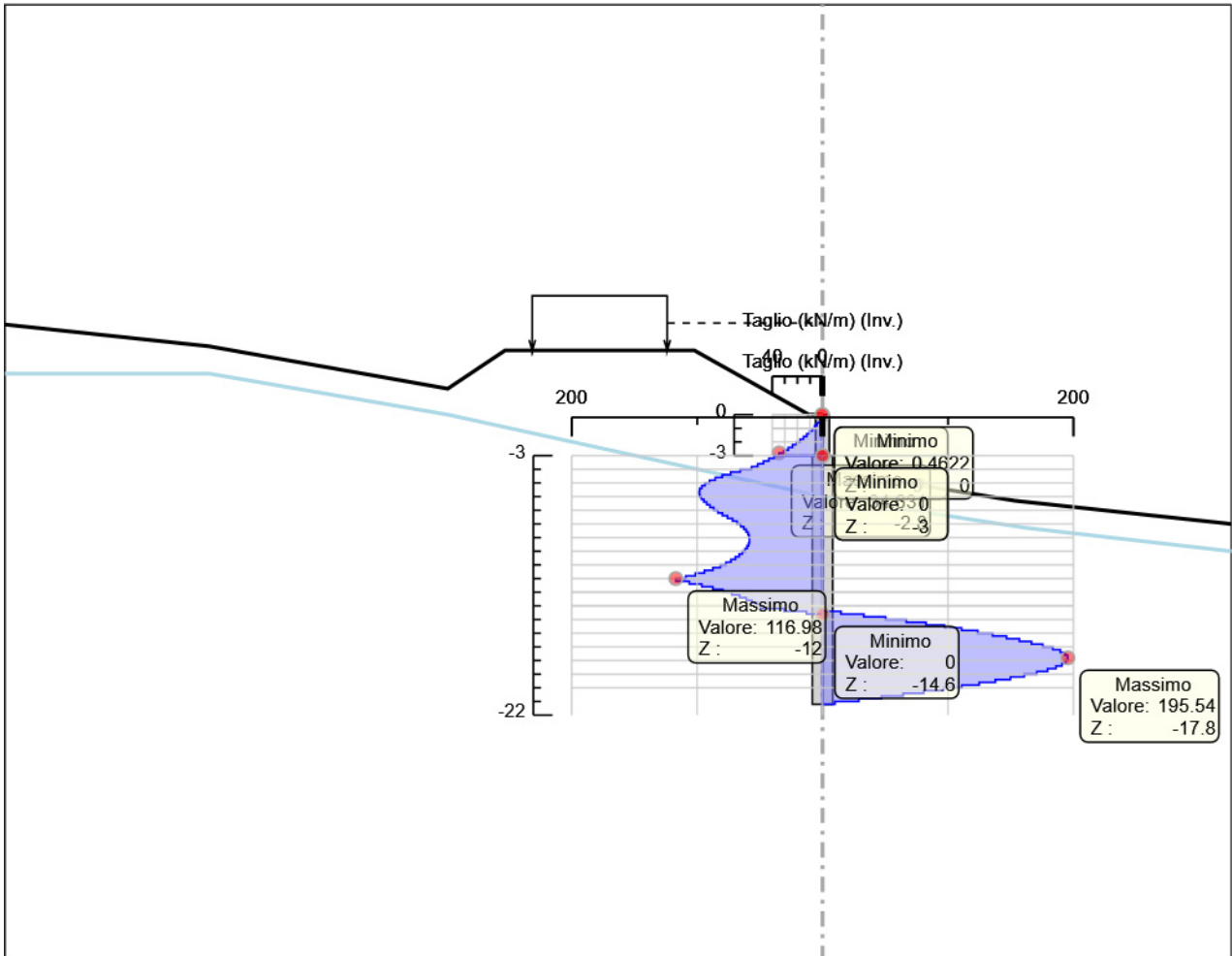
Selected Design Assumptions	Involuppi: Taglio	Muro: WallElement
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
0	0.462	0
-0.2	1.589	0
-0.4	2.917	0
-0.6	4.448	0
-0.8	6.181	0
-1	8.117	0
-1.2	10.254	0
-1.4	12.593	0
-1.6	15.135	0
-1.8	17.879	0
-2	20.825	0
-2.2	23.973	0
-2.4	27.323	0
-2.6	30.876	0
-2.8	34.631	0
-3	34.631	0

5.4.5. Tabella Involuppi Taglio Nominal WallElement_New

Selected Design Assumptions Z (m)	Muro: WallElement_New	
	Involuppi: Taglio Lato sinistro (kN/m)	Lato destro (kN/m)
-3	38.596	0
-3.2	42.772	0
-3.4	47.15	0
-3.6	51.73	0
-3.8	56.513	0
-4	65.63	0
-4.2	73.266	0
-4.4	79.892	0
-4.6	85.506	0
-4.8	90.11	0
-5	93.704	0
-5.2	96.287	0
-5.4	97.859	0
-5.6	98.42	0
-5.8	98.42	0
-6	97.971	0
-6.2	96.582	0
-6.4	94.633	0
-6.6	92.344	0
-6.8	89.713	0
-7	86.74	0
-7.2	83.425	0
-7.4	79.767	0
-7.6	75.767	0
-7.8	71.692	0
-8	68.161	0
-8.2	65.171	0
-8.4	62.716	0
-8.6	60.791	0
-8.8	59.391	0
-9	58.511	0
-9.2	58.286	0
-9.4	58.93	0
-9.6	60.07	0
-9.8	61.7	0
-10	63.815	0
-10.2	66.406	0
-10.4	69.468	0
-10.6	72.994	0
-10.8	76.977	0
-11	81.409	0
-11.2	87.342	0
-11.4	94.151	0
-11.6	101.364	0
-11.8	108.975	0
-12	116.979	0
-12.2	116.979	0
-12.4	106.157	0
-12.6	96.302	0
-12.8	87.392	0
-13	79.402	0
-13.2	72.309	0
-13.4	66.088	0
-13.6	60.714	0
-13.8	56.16	0
-14	52.4	0
-14.2	49.408	0
-14.4	30.68	14.721
-14.6	12.843	32.94
-14.8	0	50.277
-15	0	66.775
-15.2	0	82.464
-15.4	0	97.156
-15.6	0	110.918
-15.8	0	123.715
-16	0	135.614
-16.2	0	146.683

Selected Design Assumptions	Inviluppi: Taglio	Muro: WallElement_New
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
-16.4	0	156.985
-16.6	0	166.578
-16.8	0	175.527
-17	0	183.634
-17.2	0	189.552
-17.4	0	193.422
-17.6	0	195.379
-17.8	0	195.544
-18	0	195.544
-18.2	0	194.03
-18.4	0	190.939
-18.6	0	186.081
-18.8	0	179.359
-19	0	170.864
-19.2	0	160.851
-19.4	0	149.776
-19.6	0	137.757
-19.8	0	124.82
-20	0	110.989
-20.2	0	96.28
-20.4	0	80.706
-20.6	0	64.277
-20.8	0	46.999
-21	0	28.874
-21.2	0	9.906

5.4.6. Grafico Involuppi Taglio Nominal



Taglio

5.5. Risultati Terreno

5.5.1. Tabella Risultati Terreno Left Wall - Nominal - Finale

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Sigma V	Muro: LEFT	Stato	Lato LEFT	Ka	Kp	Coesione	Pore	Gradiente U*	Peq
Finale	0	0.406	0.108	ACTIVE	0.2669.735	0	0	0	0	0	0.108
Finale	-0.2	4.252	1.131	ACTIVE	0.2669.735	0	0	0	0	0	1.131
Finale	-0.4	8.101	2.155	ACTIVE	0.2669.735	0	0	0	0	0	2.155
Finale	-0.6	11.952	3.179	ACTIVE	0.2669.735	0	0	0	0	0	3.179
Finale	-0.8	15.805	4.204	ACTIVE	0.2669.735	0	0	0	0	0	4.204
Finale	-1	19.661	5.23	ACTIVE	0.2669.735	0	0	0	0	0	5.23
Finale	-1.2	23.518	6.256	ACTIVE	0.2669.735	0	0	0	0	0	6.256
Finale	-1.4	27.378	7.283	ACTIVE	0.2669.735	0	0	0	0	0	7.283
Finale	-1.6	31.239	8.31	ACTIVE	0.2669.735	0	0	0	0	0	8.31
Finale	-1.8	35.103	9.337	ACTIVE	0.2669.735	0	0	0	0	0	9.337
Finale	-2	38.967	10.365	ACTIVE	0.2669.735	0	0	0	0	0	10.365
Finale	-2.2	42.834	11.394	ACTIVE	0.2669.735	0	0	0	0	0	11.394
Finale	-2.4	46.702	12.423	ACTIVE	0.2669.735	0	0	0	0	0	12.423
Finale	-2.6	50.571	13.452	ACTIVE	0.2669.735	0	0	0	0	0	13.452
Finale	-2.8	54.441	14.481	ACTIVE	0.2669.735	0	0	0	0	0	14.481
Finale	-3	58.312	15.511	ACTIVE	0.2669.735	0	0	0	0	0	15.511
Finale	-3.2	62.184	16.541	ACTIVE	0.2669.735	0	0	0	0	0	16.541
Finale	-3.4	66.057	17.571	ACTIVE	0.2669.735	0	0	0	0	0	17.571
Finale	-3.6	69.931	18.602	ACTIVE	0.2669.735	0	0	0	0	0	18.602
Finale	-3.8	73.805	19.632	ACTIVE	0.2669.735	0	0	0	0	0	19.632
Finale	-4	77.679	50.201	ACTIVE	0.6894.351	2	0	0	0	0	50.201
Finale	-4.2	81.554	52.87	ACTIVE	0.6894.351	2	0	0	0	0	52.87
Finale	-4.4	85.429	55.54	ACTIVE	0.6894.351	2	0	0	0	0	55.54
Finale	-4.6	89.304	58.21	ACTIVE	0.6894.351	2	0	0	0	0	58.21
Finale	-4.8	93.179	60.88	ACTIVE	0.6894.351	2	0	0	0	0	60.88
Finale	-5	97.054	63.55	ACTIVE	0.6894.351	2	0	0	0	0	63.55
Finale	-5.2	100.928	66.219	ACTIVE	0.6894.351	2	0	0	0	0	66.219
Finale	-5.4	104.803	68.889	ACTIVE	0.6894.351	2	0	0	0	0	68.889
Finale	-5.6	108.677	71.558	ACTIVE	0.6894.351	2	0	0	0	0	71.558
Finale	-5.8	112.55	74.227	ACTIVE	0.6894.351	2	0	0	0	0	74.227
Finale	-6	115.297	76.119	ACTIVE	0.6894.351	2	1.127	0.006	0	0	77.246
Finale	-6.2	117.182	77.418	ACTIVE	0.6894.351	2	3.114	0.006	0	0	80.532
Finale	-6.4	119.066	78.716	ACTIVE	0.6894.351	2	5.101	0.006	0	0	83.818
Finale	-6.6	120.95	80.014	ACTIVE	0.6894.351	2	7.089	0.006	0	0	87.103
Finale	-6.8	122.833	81.312	ACTIVE	0.6894.351	2	9.076	0.006	0	0	90.388
Finale	-7	124.715	82.608	ACTIVE	0.6894.351	2	11.063	0.006	0	0	93.672
Finale	-7.2	126.596	83.905	ACTIVE	0.6894.351	2	13.051	0.006	0	0	96.955
Finale	-7.4	128.477	85.2	ACTIVE	0.6894.351	2	15.038	0.006	0	0	100.238
Finale	-7.6	130.356	86.495	ACTIVE	0.6894.351	2	17.025	0.006	0	0	103.52
Finale	-7.8	132.235	87.789	ACTIVE	0.6894.351	2	19.013	0.006	0	0	106.802
Finale	-8	134.112	89.083	ACTIVE	0.6894.351	2	21	0.006	0	0	110.083
Finale	-8.2	135.988	90.376	ACTIVE	0.6894.351	2	22.987	0.006	0	0	113.363
Finale	-8.4	137.863	91.668	ACTIVE	0.6894.351	2	24.974	0.006	0	0	116.642
Finale	-8.6	139.738	92.959	ACTIVE	0.6894.351	2	26.962	0.006	0	0	119.921
Finale	-8.8	141.61	94.249	ACTIVE	0.6894.351	2	28.949	0.006	0	0	123.198
Finale	-9	143.674	95.671	ACTIVE	0.6894.351	2	30.936	0.006	0	0	126.608
Finale	-9.2	145.745	97.098	ACTIVE	0.6894.351	2	32.924	0.006	0	0	130.022
Finale	-9.4	147.809	98.52	ACTIVE	0.6894.351	2	34.911	0.006	0	0	133.431
Finale	-9.6	149.868	99.939	ACTIVE	0.6894.351	2	36.898	0.006	0	0	136.837
Finale	-9.8	151.922	101.354	ACTIVE	0.6894.351	2	38.886	0.006	0	0	140.24
Finale	-10	153.97	102.765	ACTIVE	0.6894.351	2	40.873	0.006	0	0	143.638
Finale	-10.2	156.014	104.173	ACTIVE	0.6894.351	2	42.86	0.006	0	0	147.034
Finale	-10.4	158.053	105.578	ACTIVE	0.6894.351	2	44.848	0.006	0	0	150.426
Finale	-10.6	160.087	106.98	ACTIVE	0.6894.351	2	46.835	0.006	0	0	153.815
Finale	-10.8	162.117	108.378	ACTIVE	0.6894.351	2	48.822	0.006	0	0	157.2
Finale	-11	164.142	109.774	ACTIVE	0.6894.351	2	50.809	0.006	0	0	160.583
Finale	-11.2	166.164	111.167	ACTIVE	0.6894.351	2	52.797	0.006	0	0	163.963
Finale	-11.4	168.181	112.556	ACTIVE	0.6894.351	2	54.784	0.006	0	0	167.34
Finale	-11.6	170.194	113.944	ACTIVE	0.6894.351	2	56.771	0.006	0	0	170.715
Finale	-11.8	172.203	115.328	ACTIVE	0.6894.351	2	58.759	0.006	0	0	174.087
Finale	-12	174.209	116.71	ACTIVE	0.6894.351	2	60.746	0.006	0	0	177.456
Finale	-12.2	176.331	83.29	ACTIVE	0.5574.793	10	62.733	0.006	0	0	146.023
Finale	-12.4	178.63	84.57	ACTIVE	0.5574.793	10	64.721	0.006	0	0	149.291
Finale	-12.6	180.924	85.848	ACTIVE	0.5574.793	10	66.708	0.006	0	0	152.556

Design Assumption: Nominal Risultati Terreno Muro: LEFT Lato LEFT										
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente U*	Peq
Finale	-12.8	183.216	87.125	ACTIVE	0.557	4.793	10	68.695	0.006	0 155.82
Finale	-13	185.505	88.4	ACTIVE	0.557	4.793	10	70.683	0.006	0 159.082
Finale	-13.2	187.79	89.673	ACTIVE	0.557	4.793	10	72.67	0.006	0 162.342
Finale	-13.4	190.072	90.944	ACTIVE	0.557	4.793	10	74.657	0.006	0 165.601
Finale	-13.6	192.352	92.213	ACTIVE	0.557	4.793	10	76.644	0.006	0 168.858
Finale	-13.8	194.628	93.481	ACTIVE	0.557	4.793	10	78.632	0.006	0 172.113
Finale	-14	196.901	94.748	ACTIVE	0.557	4.793	10	80.619	0.006	0 175.367
Finale	-14.2	199.332	28.442	ACTIVE	0.496	4.484	50	82.606	0.006	0 111.048
Finale	-14.4	202	29.765	ACTIVE	0.496	4.484	50	84.594	0.006	0 114.359
Finale	-14.6	204.666	31.087	ACTIVE	0.496	4.484	50	86.581	0.006	0 117.668
Finale	-14.8	207.329	32.408	UL-RL	0.496	4.484	50	88.568	0.006	0 120.976
Finale	-15	209.989	33.728	UL-RL	0.496	4.484	50	90.556	0.006	0 124.284
Finale	-15.2	212.647	35.048	UL-RL	0.496	4.484	50	92.543	0.006	0 127.591
Finale	-15.4	215.303	36.366	UL-RL	0.496	4.484	50	94.53	0.006	0 130.896
Finale	-15.6	217.956	37.683	UL-RL	0.496	4.484	50	96.518	0.006	0 134.201
Finale	-15.8	220.608	39	UL-RL	0.496	4.484	50	98.505	0.006	0 137.504
Finale	-16	223.256	40.315	UL-RL	0.496	4.484	50	100.492	0.006	0 140.807
Finale	-16.2	225.903	41.629	UL-RL	0.496	4.484	50	102.48	0.006	0 144.108
Finale	-16.4	228.548	42.942	UL-RL	0.496	4.484	50	104.467	0.006	0 147.409
Finale	-16.6	231.191	44.254	UL-RL	0.496	4.484	50	106.454	0.006	0 150.708
Finale	-16.8	233.647	45.474	UL-RL	0.496	4.484	50	108.442	0.006	0 153.915
Finale	-17	236.104	47.94	UL-RL	0.496	4.484	50	110.429	0.006	0 158.369
Finale	-17.2	238.561	57.394	UL-RL	0.496	4.484	50	112.416	0.006	0 169.81
Finale	-17.4	241.02	66.354	UL-RL	0.496	4.484	50	114.403	0.006	0 180.757
Finale	-17.6	243.478	74.854	UL-RL	0.496	4.484	50	116.391	0.006	0 191.244
Finale	-17.8	245.938	82.927	UL-RL	0.496	4.484	50	118.378	0.006	0 201.306
Finale	-18	248.397	90.608	UL-RL	0.496	4.484	50	120.365	0.006	0 210.974
Finale	-18.2	250.858	97.932	UL-RL	0.496	4.484	50	122.353	0.006	0 220.285
Finale	-18.4	253.318	104.933	UL-RL	0.496	4.484	50	124.34	0.006	0 229.273
Finale	-18.6	255.78	111.646	UL-RL	0.496	4.484	50	126.327	0.006	0 237.973
Finale	-18.8	258.242	118.105	UL-RL	0.496	4.484	50	128.315	0.006	0 246.42
Finale	-19	260.704	123.462	UL-RL	0.496	4.484	50	130.302	0.006	0 253.764
Finale	-19.2	263.167	127.502	UL-RL	0.496	4.484	50	132.289	0.006	0 259.791
Finale	-19.4	265.63	131.472	UL-RL	0.496	4.484	50	134.277	0.006	0 265.748
Finale	-19.6	268.094	134.517	UL-RL	0.496	4.484	50	136.264	0.006	0 270.781
Finale	-19.8	270.559	137.325	UL-RL	0.496	4.484	50	138.251	0.006	0 275.576
Finale	-20	273.024	140.106	UL-RL	0.496	4.484	50	140.238	0.006	0 280.344
Finale	-20.2	275.489	142.865	UL-RL	0.496	4.484	50	142.226	0.006	0 285.091
Finale	-20.4	277.955	145.557	V-C	0.496	4.484	50	144.213	0.006	0 289.77
Finale	-20.6	280.421	148.186	V-C	0.496	4.484	50	146.2	0.006	0 294.387
Finale	-20.8	282.888	150.811	V-C	0.496	4.484	50	148.188	0.006	0 298.998
Finale	-21	285.355	153.433	V-C	0.496	4.484	50	150.175	0.006	0 303.608
Finale	-21.2	287.822	156.054	V-C	0.496	4.484	50	152.162	0.006	0 308.216

Design Assumption: Nominal Risultati Terreno Muro: LEFT Lato RIGHT											
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente U*	Peq	
Finale	0	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-0.2	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-0.4	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-0.6	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-0.8	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-1	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-1.2	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-1.4	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-1.6	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-1.8	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-2	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-2.2	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-2.4	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-2.6	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-2.8	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-3	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-3.2	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-3.4	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-3.6	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-3.8	0	0	REMOVED	0	0	0	0	0	0	0
Finale	-4	0	6.171	PASSIVE	0.322	2.38	2	0	0	0	6.171
Finale	-4.2	3.8	15.215	PASSIVE	0.322	2.38	2	0	0	0	15.215
Finale	-4.4	7.6	24.259	PASSIVE	0.322	2.38	2	0	0	0	24.259
Finale	-4.6	11.4	33.303	PASSIVE	0.322	2.38	2	0	0	0	33.303
Finale	-4.8	15.2	42.347	PASSIVE	0.322	2.38	2	0	0	0	42.347
Finale	-5	19	51.391	PASSIVE	0.322	2.38	2	0	0	0	51.391
Finale	-5.2	22.8	60.435	PASSIVE	0.322	2.38	2	0	0	0	60.435
Finale	-5.4	26.6	69.479	PASSIVE	0.322	2.38	2	0	0	0	69.479
Finale	-5.6	30.4	78.523	PASSIVE	0.322	2.38	2	0	0	0	78.523
Finale	-5.8	34.2	87.567	PASSIVE	0.322	2.38	2	0	0	0	87.567
Finale	-6	38	96.611	PASSIVE	0.322	2.38	2	0	0	0	96.611
Finale	-6.2	40.589	102.774	PASSIVE	0.322	2.38	2	1.211	0.006	0	103.984
Finale	-6.4	42.377	103.322	V-C	0.322	2.38	2	3.223	0.006	0	106.545
Finale	-6.6	44.164	102.184	V-C	0.322	2.38	2	5.236	0.006	0	107.42
Finale	-6.8	45.951	101.057	V-C	0.322	2.38	2	7.249	0.006	0	108.306
Finale	-7	47.739	99.943	V-C	0.322	2.38	2	9.261	0.006	0	109.204
Finale	-7.2	49.526	98.841	V-C	0.322	2.38	2	11.274	0.006	0	110.116
Finale	-7.4	51.313	97.754	V-C	0.322	2.38	2	13.287	0.006	0	111.041
Finale	-7.6	53.101	96.681	V-C	0.322	2.38	2	15.299	0.006	0	111.98
Finale	-7.8	54.888	95.622	V-C	0.322	2.38	2	17.312	0.006	0	112.934
Finale	-8	56.675	94.579	V-C	0.322	2.38	2	19.325	0.006	0	113.904
Finale	-8.2	58.462	93.552	V-C	0.322	2.38	2	21.337	0.006	0	114.89
Finale	-8.4	60.25	92.542	V-C	0.322	2.38	2	23.35	0.006	0	115.892
Finale	-8.6	62.037	91.549	V-C	0.322	2.38	2	25.363	0.006	0	116.911
Finale	-8.8	63.824	90.573	V-C	0.322	2.38	2	27.376	0.006	0	117.948
Finale	-9	65.612	89.615	V-C	0.322	2.38	2	29.388	0.006	0	119.004
Finale	-9.2	67.399	88.676	V-C	0.322	2.38	2	31.401	0.006	0	120.077
Finale	-9.4	69.186	87.757	V-C	0.322	2.38	2	33.414	0.006	0	121.17
Finale	-9.6	70.974	86.857	V-C	0.322	2.38	2	35.426	0.006	0	122.283
Finale	-9.8	72.761	85.977	V-C	0.322	2.38	2	37.439	0.006	0	123.416
Finale	-10	74.548	85.119	V-C	0.322	2.38	2	39.452	0.006	0	124.57
Finale	-10.2	76.335	84.282	V-C	0.322	2.38	2	41.464	0.006	0	125.746
Finale	-10.4	78.123	83.467	V-C	0.322	2.38	2	43.477	0.006	0	126.944
Finale	-10.6	79.91	82.676	V-C	0.322	2.38	2	45.49	0.006	0	128.166
Finale	-10.8	81.697	81.909	V-C	0.322	2.38	2	47.502	0.006	0	129.411
Finale	-11	83.485	81.166	V-C	0.322	2.38	2	49.515	0.006	0	130.681
Finale	-11.2	85.272	80.449	V-C	0.322	2.38	2	51.528	0.006	0	131.977
Finale	-11.4	87.059	79.759	V-C	0.322	2.38	2	53.54	0.006	0	133.3
Finale	-11.6	88.847	79.097	V-C	0.322	2.38	2	55.553	0.006	0	134.65
Finale	-11.8	90.634	78.463	V-C	0.322	2.38	2	57.566	0.006	0	136.029
Finale	-12	92.421	77.86	V-C	0.322	2.38	2	59.579	0.006	0	137.439
Finale	-12.2	94.329	138.542	V-C	0.2982.641	10	61.591	0.006	0	200.133	
Finale	-12.4	96.416	134.96	V-C	0.2982.641	10	63.604	0.006	0	198.564	
Finale	-12.6	98.503	131.492	V-C	0.2982.641	10	65.617	0.006	0	197.108	
Finale	-12.8	100.59	128.138	V-C	0.2982.641	10	67.629	0.006	0	195.768	
Finale	-13	102.678	124.904	V-C	0.2982.641	10	69.642	0.006	0	194.546	
Finale	-13.2	104.765	121.793	V-C	0.2982.641	10	71.655	0.006	0	193.447	
Finale	-13.4	106.852	118.806	V-C	0.2982.641	10	73.667	0.006	0	192.474	
Finale	-13.6	108.94	115.948	V-C	0.2982.641	10	75.68	0.006	0	191.628	
Finale	-13.8	111.027	113.219	V-C	0.2982.641	10	77.693	0.006	0	190.912	

Design Assumption: Nominal Risultati Terreno Muro:										
Stage	Z (m)	Sigma V	Sigma H	LEFT Stato	Lato		RIGHT			
					Ka	Kp	Coesione	Pore	Gradiente U*	Peq
Finale	-14	113.114	110.623	V-C	0.2982.641	10	79.705	0.006	0	190.329
Finale	-14.2	115.362	122.968	V-C	0.2982.687	50	81.718	0.006	0	204.687
Finale	-14.4	117.849	119.81	V-C	0.2982.687	50	83.731	0.006	0	203.541
Finale	-14.6	120.336	116.831	V-C	0.2982.687	50	85.744	0.006	0	202.575
Finale	-14.8	122.824	114.033	UL-RL	0.2982.687	50	87.756	0.006	0	201.789
Finale	-15	125.311	111.415	UL-RL	0.2982.687	50	89.769	0.006	0	201.184
Finale	-15.2	127.798	108.977	UL-RL	0.2982.687	50	91.782	0.006	0	200.758
Finale	-15.4	130.286	106.716	UL-RL	0.2982.687	50	93.794	0.006	0	200.51
Finale	-15.6	132.773	104.631	UL-RL	0.2982.687	50	95.807	0.006	0	200.438
Finale	-15.8	135.26	102.717	UL-RL	0.2982.687	50	97.82	0.006	0	200.536
Finale	-16	137.747	100.971	UL-RL	0.2982.687	50	99.832	0.006	0	200.803
Finale	-16.2	140.235	99.389	UL-RL	0.2982.687	50	101.845	0.006	0	201.234
Finale	-16.4	142.722	97.964	UL-RL	0.2982.687	50	103.858	0.006	0	201.822
Finale	-16.6	145.209	96.692	UL-RL	0.2982.687	50	105.87	0.006	0	202.563
Finale	-16.8	147.697	95.566	UL-RL	0.2982.687	50	107.883	0.006	0	203.45
Finale	-17	150.184	94.58	UL-RL	0.2982.687	50	109.896	0.006	0	204.476
Finale	-17.2	152.671	93.725	UL-RL	0.2982.687	50	111.908	0.006	0	205.634
Finale	-17.4	155.159	92.994	UL-RL	0.2982.687	50	113.921	0.006	0	206.915
Finale	-17.6	157.646	92.379	UL-RL	0.2982.687	50	115.934	0.006	0	208.313
Finale	-17.8	160.133	91.872	UL-RL	0.2982.687	50	117.947	0.006	0	209.818
Finale	-18	162.621	91.463	UL-RL	0.2982.687	50	119.959	0.006	0	211.422
Finale	-18.2	165.108	91.144	UL-RL	0.2982.687	50	121.972	0.006	0	213.116
Finale	-18.4	167.595	89.502	UL-RL	0.2982.687	50	123.985	0.006	0	213.486
Finale	-18.6	170.083	87.039	UL-RL	0.2982.687	50	125.997	0.006	0	213.036
Finale	-18.8	172.57	84.735	UL-RL	0.2982.687	50	128.01	0.006	0	212.745
Finale	-19	175.057	82.569	UL-RL	0.2982.687	50	130.023	0.006	0	212.592
Finale	-19.2	177.544	80.523	UL-RL	0.2982.687	50	132.036	0.006	0	212.558
Finale	-19.4	180.032	78.577	UL-RL	0.2982.687	50	134.048	0.006	0	212.625
Finale	-19.6	182.519	76.714	UL-RL	0.2982.687	50	136.061	0.006	0	212.775
Finale	-19.8	185.006	74.919	UL-RL	0.2982.687	50	138.074	0.006	0	212.992
Finale	-20	187.494	73.176	UL-RL	0.2982.687	50	140.086	0.006	0	213.262
Finale	-20.2	189.981	71.473	UL-RL	0.2982.687	50	142.099	0.006	0	213.572
Finale	-20.4	192.468	69.798	UL-RL	0.2982.687	50	144.112	0.006	0	213.909
Finale	-20.6	194.956	68.141	UL-RL	0.2982.687	50	146.124	0.006	0	214.266
Finale	-20.8	197.443	66.496	UL-RL	0.2982.687	50	148.137	0.006	0	214.633
Finale	-21	199.93	64.856	UL-RL	0.2982.687	50	150.15	0.006	0	215.006
Finale	-21.2	202.418	63.218	UL-RL	0.2982.687	50	152.162	0.006	0	215.381

5.5.2. Tabella Risultati Terreno Left Wall - Nominal - Stage A

Design Assumption: Nominal Risultati Terreno Muro: LEFT Lato LEFT										
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente U*	Peq
Stage A	0	0	0	PASSIVE	0.2669.735	0	0	0	0	0
Stage A	-0.2	3.8	1.204	UL-RL	0.2669.735	0	0	0	0	1.204
Stage A	-0.4	7.6	2.218	UL-RL	0.2669.735	0	0	0	0	2.218
Stage A	-0.6	11.4	3.232	UL-RL	0.2669.735	0	0	0	0	3.232
Stage A	-0.8	15.2	4.245	UL-RL	0.2669.735	0	0	0	0	4.245
Stage A	-1	19	5.258	UL-RL	0.2669.735	0	0	0	0	5.258
Stage A	-1.2	22.8	6.271	UL-RL	0.2669.735	0	0	0	0	6.271
Stage A	-1.4	26.6	7.284	UL-RL	0.2669.735	0	0	0	0	7.284
Stage A	-1.6	30.4	8.298	UL-RL	0.2669.735	0	0	0	0	8.298
Stage A	-1.8	34.2	9.311	UL-RL	0.2669.735	0	0	0	0	9.311
Stage A	-2	38	10.324	UL-RL	0.2669.735	0	0	0	0	10.324
Stage A	-2.2	41.8	11.337	UL-RL	0.2669.735	0	0	0	0	11.337
Stage A	-2.4	45.6	12.35	UL-RL	0.2669.735	0	0	0	0	12.35
Stage A	-2.6	49.4	13.364	UL-RL	0.2669.735	0	0	0	0	13.364
Stage A	-2.8	53.2	14.377	UL-RL	0.2669.735	0	0	0	0	14.377
Stage A	-3	57	15.39	UL-RL	0.2669.735	0	0	0	0	15.39
Stage A	-3.2	60.8	16.403	UL-RL	0.2669.735	0	0	0	0	16.403
Stage A	-3.4	64.6	17.417	UL-RL	0.2669.735	0	0	0	0	17.417
Stage A	-3.6	68.4	18.43	UL-RL	0.2669.735	0	0	0	0	18.43
Stage A	-3.8	72.2	19.443	UL-RL	0.2669.735	0	0	0	0	19.443
Stage A	-4	76	50.175	UL-RL	0.6894.351	2	0	0	0	50.175
Stage A	-4.2	79.8	52.829	UL-RL	0.6894.351	2	0	0	0	52.829
Stage A	-4.4	83.6	55.482	UL-RL	0.6894.351	2	0	0	0	55.482
Stage A	-4.6	87.4	58.136	UL-RL	0.6894.351	2	0	0	0	58.136
Stage A	-4.8	91.2	60.79	UL-RL	0.6894.351	2	0	0	0	60.79
Stage A	-5	95	63.443	UL-RL	0.6894.351	2	0	0	0	63.443
Stage A	-5.2	98.8	66.097	UL-RL	0.6894.351	2	0	0	0	66.097
Stage A	-5.4	102.6	68.75	UL-RL	0.6894.351	2	0	0	0	68.75
Stage A	-5.6	106.4	71.403	UL-RL	0.6894.351	2	0	0	0	71.403
Stage A	-5.8	110.2	74.056	UL-RL	0.6894.351	2	0	0	0	74.056
Stage A	-6	112.873	75.933	UL-RL	0.6894.351	2	1.127	0.006	0	77.059
Stage A	-6.2	114.686	77.216	UL-RL	0.6894.351	2	3.114	0.006	0	80.33
Stage A	-6.4	116.499	78.499	UL-RL	0.6894.351	2	5.101	0.006	0	83.6
Stage A	-6.6	118.311	79.781	UL-RL	0.6894.351	2	7.089	0.006	0	86.87
Stage A	-6.8	120.124	81.063	UL-RL	0.6894.351	2	9.076	0.006	0	90.139
Stage A	-7	121.937	82.345	UL-RL	0.6894.351	2	11.063	0.006	0	93.408
Stage A	-7.2	123.749	83.626	UL-RL	0.6894.351	2	13.051	0.006	0	96.677
Stage A	-7.4	125.562	84.907	UL-RL	0.6894.351	2	15.038	0.006	0	99.945
Stage A	-7.6	127.375	86.187	UL-RL	0.6894.351	2	17.025	0.006	0	103.212
Stage A	-7.8	129.187	87.466	UL-RL	0.6894.351	2	19.013	0.006	0	106.479
Stage A	-8	131	88.745	UL-RL	0.6894.351	2	21	0.006	0	109.745
Stage A	-8.2	132.813	90.024	UL-RL	0.6894.351	2	22.987	0.006	0	113.011
Stage A	-8.4	134.625	91.301	UL-RL	0.6894.351	2	24.974	0.006	0	116.276
Stage A	-8.6	136.438	92.578	UL-RL	0.6894.351	2	26.962	0.006	0	119.54
Stage A	-8.8	138.251	93.854	UL-RL	0.6894.351	2	28.949	0.006	0	122.803
Stage A	-9	140.064	95.213	UL-RL	0.6894.351	2	30.936	0.006	0	126.149
Stage A	-9.2	141.876	96.574	UL-RL	0.6894.351	2	32.924	0.006	0	129.498
Stage A	-9.4	143.689	97.933	UL-RL	0.6894.351	2	34.911	0.006	0	132.844
Stage A	-9.6	145.502	99.289	UL-RL	0.6894.351	2	36.898	0.006	0	136.187
Stage A	-9.8	147.314	100.642	UL-RL	0.6894.351	2	38.886	0.006	0	139.527
Stage A	-10	149.127	101.992	UL-RL	0.6894.351	2	40.873	0.006	0	142.865
Stage A	-10.2	150.94	103.34	UL-RL	0.6894.351	2	42.86	0.006	0	146.2
Stage A	-10.4	152.752	104.686	UL-RL	0.6894.351	2	44.848	0.006	0	149.533
Stage A	-10.6	154.565	106.028	UL-RL	0.6894.351	2	46.835	0.006	0	152.863
Stage A	-10.8	156.378	107.369	UL-RL	0.6894.351	2	48.822	0.006	0	156.191
Stage A	-11	158.19	108.708	UL-RL	0.6894.351	2	50.809	0.006	0	159.517
Stage A	-11.2	160.003	110.044	UL-RL	0.6894.351	2	52.797	0.006	0	162.84
Stage A	-11.4	161.816	111.378	UL-RL	0.6894.351	2	54.784	0.006	0	166.162
Stage A	-11.6	163.628	112.71	UL-RL	0.6894.351	2	56.771	0.006	0	169.481
Stage A	-11.8	165.441	114.04	UL-RL	0.6894.351	2	58.759	0.006	0	172.798
Stage A	-12	167.254	115.368	UL-RL	0.6894.351	2	60.746	0.006	0	176.114
Stage A	-12.2	169.186	82.948	UL-RL	0.5574.793	10	62.733	0.006	0	145.681
Stage A	-12.4	171.299	84.162	UL-RL	0.5574.793	10	64.721	0.006	0	148.883
Stage A	-12.6	173.412	85.376	UL-RL	0.5574.793	10	66.708	0.006	0	152.084
Stage A	-12.8	175.525	86.588	UL-RL	0.5574.793	10	68.695	0.006	0	155.284
Stage A	-13	177.637	87.8	UL-RL	0.5574.793	10	70.683	0.006	0	158.482
Stage A	-13.2	179.75	89.01	UL-RL	0.5574.793	10	72.67	0.006	0	161.68

Design Assumption: Nominal Risultati Terreno Muro: LEFT Lato LEFT											
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente U*	Peq	
Stage A	-13.4	181.863	90.22	UL-RL	0.557	4.793	10	74.657	0.006	0	164.877
Stage A	-13.6	183.975	91.429	UL-RL	0.557	4.793	10	76.644	0.006	0	168.074
Stage A	-13.8	186.088	92.638	UL-RL	0.557	4.793	10	78.632	0.006	0	171.27
Stage A	-14	188.201	93.846	UL-RL	0.557	4.793	10	80.619	0.006	0	174.465
Stage A	-14.2	190.473	27.881	UL-RL	0.496	4.484	50	82.606	0.006	0	110.488
Stage A	-14.4	192.986	29.144	UL-RL	0.496	4.484	50	84.594	0.006	0	113.738
Stage A	-14.6	195.499	30.408	UL-RL	0.496	4.484	50	86.581	0.006	0	116.989
Stage A	-14.8	198.011	31.671	UL-RL	0.496	4.484	50	88.568	0.006	0	120.24
Stage A	-15	200.524	32.936	UL-RL	0.496	4.484	50	90.556	0.006	0	123.492
Stage A	-15.2	203.037	34.202	UL-RL	0.496	4.484	50	92.543	0.006	0	126.745
Stage A	-15.4	205.55	35.468	UL-RL	0.496	4.484	50	94.53	0.006	0	129.998
Stage A	-15.6	208.062	36.734	UL-RL	0.496	4.484	50	96.518	0.006	0	133.252
Stage A	-15.8	210.575	38.001	UL-RL	0.496	4.484	50	98.505	0.006	0	136.506
Stage A	-16	213.088	39.268	UL-RL	0.496	4.484	50	100.492	0.006	0	139.76
Stage A	-16.2	215.6	40.535	UL-RL	0.496	4.484	50	102.48	0.006	0	143.015
Stage A	-16.4	218.113	41.803	UL-RL	0.496	4.484	50	104.467	0.006	0	146.27
Stage A	-16.6	220.626	43.071	UL-RL	0.496	4.484	50	106.454	0.006	0	149.525
Stage A	-16.8	223.138	44.295	UL-RL	0.496	4.484	50	108.442	0.006	0	152.737
Stage A	-17	225.651	46.766	UL-RL	0.496	4.484	50	110.429	0.006	0	157.195
Stage A	-17.2	228.164	56.225	UL-RL	0.496	4.484	50	112.416	0.006	0	168.641
Stage A	-17.4	230.676	65.191	UL-RL	0.496	4.484	50	114.403	0.006	0	179.594
Stage A	-17.6	233.189	73.696	UL-RL	0.496	4.484	50	116.391	0.006	0	190.087
Stage A	-17.8	235.702	81.776	UL-RL	0.496	4.484	50	118.378	0.006	0	200.154
Stage A	-18	238.215	89.463	UL-RL	0.496	4.484	50	120.365	0.006	0	209.828
Stage A	-18.2	240.727	96.793	UL-RL	0.496	4.484	50	122.353	0.006	0	219.145
Stage A	-18.4	243.24	103.8	UL-RL	0.496	4.484	50	124.34	0.006	0	228.14
Stage A	-18.6	245.753	110.52	UL-RL	0.496	4.484	50	126.327	0.006	0	236.847
Stage A	-18.8	248.265	116.985	UL-RL	0.496	4.484	50	128.315	0.006	0	245.299
Stage A	-19	250.778	122.348	UL-RL	0.496	4.484	50	130.302	0.006	0	252.65
Stage A	-19.2	253.291	126.395	UL-RL	0.496	4.484	50	132.289	0.006	0	258.684
Stage A	-19.4	255.803	130.371	UL-RL	0.496	4.484	50	134.277	0.006	0	264.648
Stage A	-19.6	258.316	133.423	UL-RL	0.496	4.484	50	136.264	0.006	0	269.687
Stage A	-19.8	260.829	136.237	UL-RL	0.496	4.484	50	138.251	0.006	0	274.489
Stage A	-20	263.342	139.024	UL-RL	0.496	4.484	50	140.238	0.006	0	279.263
Stage A	-20.2	265.854	141.79	UL-RL	0.496	4.484	50	142.226	0.006	0	284.016
Stage A	-20.4	268.367	144.488	UL-RL	0.496	4.484	50	144.213	0.006	0	288.701
Stage A	-20.6	270.88	147.123	UL-RL	0.496	4.484	50	146.2	0.006	0	293.324
Stage A	-20.8	273.392	149.753	UL-RL	0.496	4.484	50	148.188	0.006	0	297.941
Stage A	-21	275.905	152.381	UL-RL	0.496	4.484	50	150.175	0.006	0	302.556
Stage A	-21.2	278.418	155.008	UL-RL	0.496	4.484	50	152.162	0.006	0	307.17

Design Assumption: Nominal Risultati Terreno Muro:											
Stage	Z (m)	Sigma V	Sigma H	LEFT		Lato RIGHT					
				Stato	Ka	Kp	Coesione	Pore	Gradiente U*	Peq	
Stage A	0	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-0.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-0.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-0.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-0.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-1	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-1.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-1.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-1.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-1.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-2	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-2.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-2.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-2.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-2.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-3	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-3.2	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-3.4	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-3.6	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-3.8	0	0	REMOVED	0	0	0	0	0	0	0
Stage A	-4	0	5.849	UL-RL	0.322	2.38	2	0	0	0	5.849
Stage A	-4.2	3.8	14.891	UL-RL	0.322	2.38	2	0	0	0	14.891
Stage A	-4.4	7.6	23.933	UL-RL	0.322	2.38	2	0	0	0	23.933
Stage A	-4.6	11.4	32.975	UL-RL	0.322	2.38	2	0	0	0	32.975
Stage A	-4.8	15.2	42.017	UL-RL	0.322	2.38	2	0	0	0	42.017
Stage A	-5	19	51.058	UL-RL	0.322	2.38	2	0	0	0	51.058
Stage A	-5.2	22.8	60.1	UL-RL	0.322	2.38	2	0	0	0	60.1
Stage A	-5.4	26.6	69.142	UL-RL	0.322	2.38	2	0	0	0	69.142
Stage A	-5.6	30.4	78.184	UL-RL	0.322	2.38	2	0	0	0	78.184
Stage A	-5.8	34.2	87.226	UL-RL	0.322	2.38	2	0	0	0	87.226
Stage A	-6	38	96.268	UL-RL	0.322	2.38	2	0	0	0	96.268
Stage A	-6.2	40.589	102.428	UL-RL	0.322	2.38	2	1.211	0.006	0	103.639
Stage A	-6.4	42.377	102.974	UL-RL	0.322	2.38	2	3.223	0.006	0	106.198
Stage A	-6.6	44.164	101.834	UL-RL	0.322	2.38	2	5.236	0.006	0	107.07
Stage A	-6.8	45.951	100.706	UL-RL	0.322	2.38	2	7.249	0.006	0	107.954
Stage A	-7	47.739	99.59	UL-RL	0.322	2.38	2	9.261	0.006	0	108.851
Stage A	-7.2	49.526	98.486	UL-RL	0.322	2.38	2	11.274	0.006	0	109.76
Stage A	-7.4	51.313	97.397	UL-RL	0.322	2.38	2	13.287	0.006	0	110.684
Stage A	-7.6	53.101	96.322	UL-RL	0.322	2.38	2	15.299	0.006	0	111.622
Stage A	-7.8	54.888	95.262	UL-RL	0.322	2.38	2	17.312	0.006	0	112.574
Stage A	-8	56.675	94.218	UL-RL	0.322	2.38	2	19.325	0.006	0	113.543
Stage A	-8.2	58.462	93.19	UL-RL	0.322	2.38	2	21.337	0.006	0	114.527
Stage A	-8.4	60.25	92.178	UL-RL	0.322	2.38	2	23.35	0.006	0	115.529
Stage A	-8.6	62.037	91.184	UL-RL	0.322	2.38	2	25.363	0.006	0	116.547
Stage A	-8.8	63.824	90.208	UL-RL	0.322	2.38	2	27.376	0.006	0	117.584
Stage A	-9	65.612	89.25	UL-RL	0.322	2.38	2	29.388	0.006	0	118.638
Stage A	-9.2	67.399	88.311	UL-RL	0.322	2.38	2	31.401	0.006	0	119.712
Stage A	-9.4	69.186	87.391	UL-RL	0.322	2.38	2	33.414	0.006	0	120.805
Stage A	-9.6	70.974	86.492	UL-RL	0.322	2.38	2	35.426	0.006	0	121.918
Stage A	-9.8	72.761	85.613	UL-RL	0.322	2.38	2	37.439	0.006	0	123.052
Stage A	-10	74.548	84.756	UL-RL	0.322	2.38	2	39.452	0.006	0	124.207
Stage A	-10.2	76.335	83.92	UL-RL	0.322	2.38	2	41.464	0.006	0	125.384
Stage A	-10.4	78.123	83.107	UL-RL	0.322	2.38	2	43.477	0.006	0	126.584
Stage A	-10.6	79.91	82.318	UL-RL	0.322	2.38	2	45.49	0.006	0	127.808
Stage A	-10.8	81.697	81.553	UL-RL	0.322	2.38	2	47.502	0.006	0	129.055
Stage A	-11	83.485	80.813	UL-RL	0.322	2.38	2	49.515	0.006	0	130.328
Stage A	-11.2	85.272	80.099	UL-RL	0.322	2.38	2	51.528	0.006	0	131.626
Stage A	-11.4	87.059	79.412	UL-RL	0.322	2.38	2	53.54	0.006	0	132.952
Stage A	-11.6	88.847	78.753	UL-RL	0.322	2.38	2	55.553	0.006	0	134.306
Stage A	-11.8	90.634	78.123	UL-RL	0.322	2.38	2	57.566	0.006	0	135.689
Stage A	-12	92.421	77.524	UL-RL	0.322	2.38	2	59.579	0.006	0	137.102
Stage A	-12.2	94.329	137.444	UL-RL	0.298	2.641	10	61.591	0.006	0	199.035
Stage A	-12.4	96.416	133.876	UL-RL	0.298	2.641	10	63.604	0.006	0	197.48
Stage A	-12.6	98.503	130.421	UL-RL	0.298	2.641	10	65.617	0.006	0	196.037
Stage A	-12.8	100.59	127.082	UL-RL	0.298	2.641	10	67.629	0.006	0	194.711
Stage A	-13	102.678	123.862	UL-RL	0.298	2.641	10	69.642	0.006	0	193.504
Stage A	-13.2	104.765	120.764	UL-RL	0.298	2.641	10	71.655	0.006	0	192.419
Stage A	-13.4	106.852	117.791	UL-RL	0.298	2.641	10	73.667	0.006	0	191.459
Stage A	-13.6	108.94	114.946	UL-RL	0.298	2.641	10	75.68	0.006	0	190.626
Stage A	-13.8	111.027	112.231	UL-RL	0.298	2.641	10	77.693	0.006	0	189.924

Design Assumption: Nominal Risultati Terreno Muro:										
Stage	Z (m)	Sigma V	Sigma H	LEFT Stato	Lato RIGHT					
					Ka	Kp	Coesione	Pore	Gradiente U*	Peq
Stage A	-14	113.114	109.648	UL-RL	0.2982.641	10	79.705	0.006	0	189.354
Stage A	-14.2	115.362	121.707	UL-RL	0.2982.687	50	81.718	0.006	0	203.425
Stage A	-14.4	117.849	118.564	UL-RL	0.2982.687	50	83.731	0.006	0	202.295
Stage A	-14.6	120.336	115.6	UL-RL	0.2982.687	50	85.744	0.006	0	201.344
Stage A	-14.8	122.824	112.817	UL-RL	0.2982.687	50	87.756	0.006	0	200.573
Stage A	-15	125.311	110.212	UL-RL	0.2982.687	50	89.769	0.006	0	199.981
Stage A	-15.2	127.798	107.787	UL-RL	0.2982.687	50	91.782	0.006	0	199.569
Stage A	-15.4	130.286	105.538	UL-RL	0.2982.687	50	93.794	0.006	0	199.333
Stage A	-15.6	132.773	103.464	UL-RL	0.2982.687	50	95.807	0.006	0	199.271
Stage A	-15.8	135.26	101.561	UL-RL	0.2982.687	50	97.82	0.006	0	199.381
Stage A	-16	137.747	99.826	UL-RL	0.2982.687	50	99.832	0.006	0	199.658
Stage A	-16.2	140.235	98.253	UL-RL	0.2982.687	50	101.845	0.006	0	200.098
Stage A	-16.4	142.722	96.837	UL-RL	0.2982.687	50	103.858	0.006	0	200.695
Stage A	-16.6	145.209	95.574	UL-RL	0.2982.687	50	105.87	0.006	0	201.444
Stage A	-16.8	147.697	94.456	UL-RL	0.2982.687	50	107.883	0.006	0	202.339
Stage A	-17	150.184	93.476	UL-RL	0.2982.687	50	109.896	0.006	0	203.372
Stage A	-17.2	152.671	92.629	UL-RL	0.2982.687	50	111.908	0.006	0	204.537
Stage A	-17.4	155.159	91.905	UL-RL	0.2982.687	50	113.921	0.006	0	205.826
Stage A	-17.6	157.646	91.296	UL-RL	0.2982.687	50	115.934	0.006	0	207.23
Stage A	-17.8	160.133	90.794	UL-RL	0.2982.687	50	117.947	0.006	0	208.741
Stage A	-18	162.621	90.391	UL-RL	0.2982.687	50	119.959	0.006	0	210.351
Stage A	-18.2	165.108	90.078	UL-RL	0.2982.687	50	121.972	0.006	0	212.05
Stage A	-18.4	167.595	88.441	UL-RL	0.2982.687	50	123.985	0.006	0	212.426
Stage A	-18.6	170.083	85.984	UL-RL	0.2982.687	50	125.997	0.006	0	211.981
Stage A	-18.8	172.57	83.684	UL-RL	0.2982.687	50	128.01	0.006	0	211.695
Stage A	-19	175.057	81.524	UL-RL	0.2982.687	50	130.023	0.006	0	211.547
Stage A	-19.2	177.544	79.482	UL-RL	0.2982.687	50	132.036	0.006	0	211.518
Stage A	-19.4	180.032	77.541	UL-RL	0.2982.687	50	134.048	0.006	0	211.589
Stage A	-19.6	182.519	75.683	UL-RL	0.2982.687	50	136.061	0.006	0	211.744
Stage A	-19.8	185.006	73.892	UL-RL	0.2982.687	50	138.074	0.006	0	211.966
Stage A	-20	187.494	72.154	UL-RL	0.2982.687	50	140.086	0.006	0	212.24
Stage A	-20.2	189.981	70.455	UL-RL	0.2982.687	50	142.099	0.006	0	212.554
Stage A	-20.4	192.468	68.785	UL-RL	0.2982.687	50	144.112	0.006	0	212.896
Stage A	-20.6	194.956	67.133	UL-RL	0.2982.687	50	146.124	0.006	0	213.257
Stage A	-20.8	197.443	65.492	UL-RL	0.2982.687	50	148.137	0.006	0	213.629
Stage A	-21	199.93	63.857	UL-RL	0.2982.687	50	150.15	0.006	0	214.006
Stage A	-21.2	202.418	62.223	UL-RL	0.2982.687	50	152.162	0.006	0	214.386

5.5.3. Tabella Risultati Terreno Left Wall - Nominal - Sisma

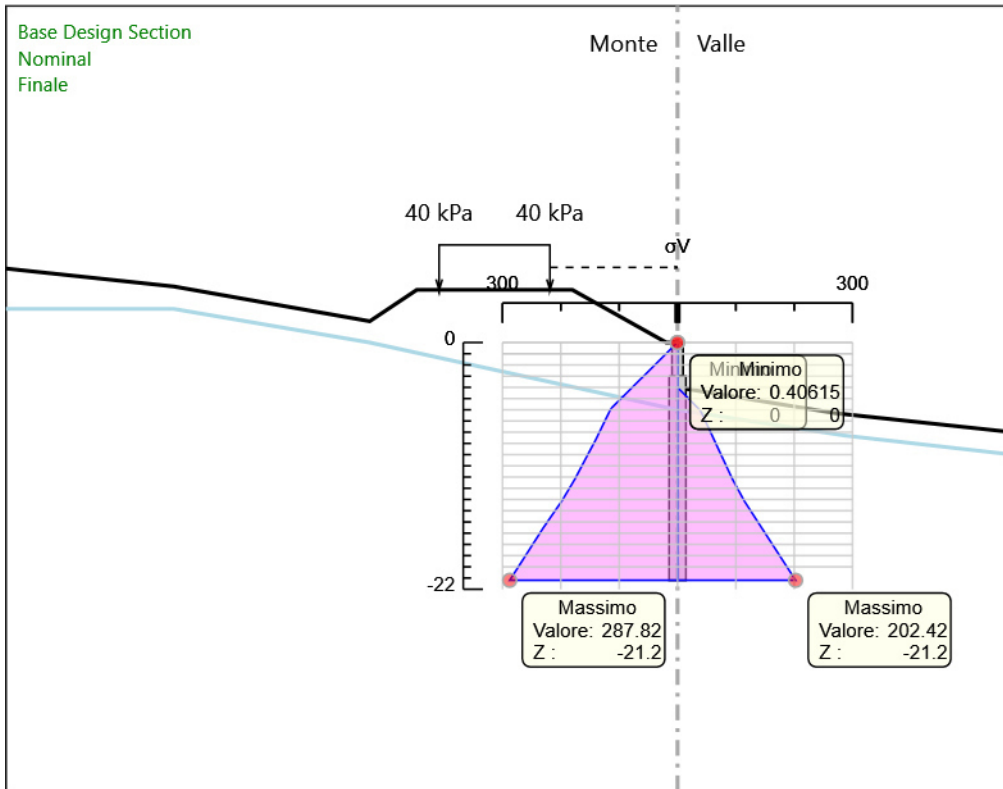
Design Assumption: Nominal Risultati Terreno Muro: LEFT Lato LEFT										
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente U*	Peq
Sisma	0	0	0	ACTIVE	0.266	10.105	0	0	0	0
Sisma	-0.2	3.8	1.011	ACTIVE	0.266	10.105	0	0	0	1.011
Sisma	-0.4	7.6	2.022	ACTIVE	0.266	10.105	0	0	0	2.022
Sisma	-0.6	11.4	3.032	ACTIVE	0.266	10.105	0	0	0	3.032
Sisma	-0.8	15.2	4.043	ACTIVE	0.266	10.105	0	0	0	4.043
Sisma	-1	19	5.054	ACTIVE	0.266	10.105	0	0	0	5.054
Sisma	-1.2	22.8	6.065	ACTIVE	0.266	10.105	0	0	0	6.065
Sisma	-1.4	26.6	7.076	ACTIVE	0.266	10.105	0	0	0	7.076
Sisma	-1.6	30.4	8.086	ACTIVE	0.266	10.105	0	0	0	8.086
Sisma	-1.8	34.2	9.097	ACTIVE	0.266	10.105	0	0	0	9.097
Sisma	-2	38	10.108	ACTIVE	0.266	10.105	0	0	0	10.108
Sisma	-2.2	41.8	11.119	ACTIVE	0.266	10.105	0	0	0	11.119
Sisma	-2.4	45.6	12.13	ACTIVE	0.266	10.105	0	0	0	12.13
Sisma	-2.6	49.4	13.14	ACTIVE	0.266	10.105	0	0	0	13.14
Sisma	-2.8	53.2	14.151	ACTIVE	0.266	10.105	0	0	0	14.151
Sisma	-3	57	15.162	ACTIVE	0.266	10.105	0	0	0	15.162
Sisma	-3.2	60.8	16.173	ACTIVE	0.266	10.105	0	0	0	16.173
Sisma	-3.4	64.6	17.184	ACTIVE	0.266	10.105	0	0	0	17.184
Sisma	-3.6	68.4	18.194	ACTIVE	0.266	10.105	0	0	0	18.194
Sisma	-3.8	72.2	19.205	ACTIVE	0.266	10.105	0	0	0	19.205
Sisma	-4	76	49.044	ACTIVE	0.689	4.466	2	0	0	49.044
Sisma	-4.2	79.8	51.662	ACTIVE	0.689	4.466	2	0	0	51.662
Sisma	-4.4	83.6	54.28	ACTIVE	0.689	4.466	2	0	0	54.28
Sisma	-4.6	87.4	56.898	ACTIVE	0.689	4.466	2	0	0	56.898
Sisma	-4.8	91.2	59.517	ACTIVE	0.689	4.466	2	0	0	59.517
Sisma	-5	95	62.135	ACTIVE	0.689	4.466	2	0	0	62.135
Sisma	-5.2	98.8	64.753	ACTIVE	0.689	4.466	2	0	0	64.753
Sisma	-5.4	102.6	67.371	ACTIVE	0.689	4.466	2	0	0	67.371
Sisma	-5.6	106.4	69.989	ACTIVE	0.689	4.466	2	0	0	69.989
Sisma	-5.8	110.2	72.608	ACTIVE	0.689	4.466	2	0	0	72.608
Sisma	-6	112.873	74.449	ACTIVE	0.689	4.465	2	1.127	0.006	75.576
Sisma	-6.2	114.686	75.698	ACTIVE	0.689	4.462	2	3.114	0.006	78.812
Sisma	-6.4	116.499	76.947	ACTIVE	0.689	4.46	2	5.101	0.006	82.049
Sisma	-6.6	118.311	78.196	ACTIVE	0.689	4.458	2	7.089	0.006	85.285
Sisma	-6.8	120.124	79.445	ACTIVE	0.689	4.456	2	9.076	0.006	88.521
Sisma	-7	121.937	80.694	ACTIVE	0.689	4.454	2	11.063	0.006	91.757
Sisma	-7.2	123.749	81.943	ACTIVE	0.689	4.452	2	13.051	0.006	94.994
Sisma	-7.4	125.562	83.192	ACTIVE	0.689	4.45	2	15.038	0.006	98.23
Sisma	-7.6	127.375	84.441	ACTIVE	0.689	4.448	2	17.025	0.006	101.466
Sisma	-7.8	129.187	85.69	ACTIVE	0.689	4.446	2	19.013	0.006	104.702
Sisma	-8	131	86.939	ACTIVE	0.689	4.445	2	21	0.006	107.939
Sisma	-8.2	132.813	88.188	ACTIVE	0.689	4.443	2	22.987	0.006	111.175
Sisma	-8.4	134.625	89.437	ACTIVE	0.689	4.441	2	24.974	0.006	114.411
Sisma	-8.6	136.438	90.686	ACTIVE	0.689	4.44	2	26.962	0.006	117.647
Sisma	-8.8	138.251	91.935	ACTIVE	0.689	4.438	2	28.949	0.006	120.884
Sisma	-9	140.064	93.184	ACTIVE	0.689	4.437	2	30.936	0.006	124.12
Sisma	-9.2	141.876	94.432	ACTIVE	0.689	4.435	2	32.924	0.006	127.356
Sisma	-9.4	143.689	95.681	ACTIVE	0.689	4.434	2	34.911	0.006	130.592
Sisma	-9.6	145.502	96.93	ACTIVE	0.689	4.432	2	36.898	0.006	133.829
Sisma	-9.8	147.314	98.179	ACTIVE	0.689	4.431	2	38.886	0.006	137.065
Sisma	-10	149.127	99.428	ACTIVE	0.689	4.43	2	40.873	0.006	140.301
Sisma	-10.2	150.94	100.677	ACTIVE	0.689	4.428	2	42.86	0.006	143.537
Sisma	-10.4	152.752	101.926	ACTIVE	0.689	4.427	2	44.848	0.006	146.774
Sisma	-10.6	154.565	103.175	ACTIVE	0.689	4.426	2	46.835	0.006	150.01
Sisma	-10.8	156.378	104.424	ACTIVE	0.689	4.425	2	48.822	0.006	153.246
Sisma	-11	158.19	105.673	ACTIVE	0.689	4.423	2	50.809	0.006	156.482
Sisma	-11.2	160.003	106.922	ACTIVE	0.689	4.422	2	52.797	0.006	159.719
Sisma	-11.4	161.816	108.171	ACTIVE	0.689	4.421	2	54.784	0.006	162.955
Sisma	-11.6	163.628	109.42	ACTIVE	0.689	4.42	2	56.771	0.006	166.191
Sisma	-11.8	165.441	110.669	ACTIVE	0.689	4.419	2	58.759	0.006	169.427
Sisma	-12	167.254	111.918	ACTIVE	0.689	4.418	2	60.746	0.006	172.664
Sisma	-12.2	169.186	79.31	ACTIVE	0.557	4.839	10	62.733	0.006	142.044
Sisma	-12.4	171.299	80.487	ACTIVE	0.557	4.838	10	64.721	0.006	145.208
Sisma	-12.6	173.412	81.664	ACTIVE	0.557	4.836	10	66.708	0.006	148.372
Sisma	-12.8	175.525	82.841	ACTIVE	0.557	4.835	10	68.695	0.006	151.536
Sisma	-13	177.637	84.017	ACTIVE	0.557	4.834	10	70.683	0.006	154.7
Sisma	-13.2	179.75	85.194	ACTIVE	0.557	4.833	10	72.67	0.006	157.864

Design Assumption: Nominal Risultati Terreno											
Stage	Z (m)	Sigma V	Muro: LEFT			Lato LEFT			Pore	Gradiente U*	Peq
			Sigma H	Stato	Ka	Kp	Coesione				
Sisma	-13.4	181.863	86.371	ACTIVE	0.557	4.832	10	74.657	0.006	0	161.028
Sisma	-13.6	183.975	87.548	ACTIVE	0.557	4.831	10	76.644	0.006	0	164.192
Sisma	-13.8	186.088	88.725	ACTIVE	0.557	4.83	10	78.632	0.006	0	167.356
Sisma	-14	188.201	89.901	ACTIVE	0.557	4.829	10	80.619	0.006	0	170.52
Sisma	-14.2	190.473	24.048	ACTIVE	0.496	4.47	50	82.606	0.006	0	106.654
Sisma	-14.4	192.986	25.294	ACTIVE	0.496	4.469	50	84.594	0.006	0	109.888
Sisma	-14.6	195.499	26.54	ACTIVE	0.496	4.468	50	86.581	0.006	0	113.121
Sisma	-14.8	198.011	27.786	ACTIVE	0.496	4.467	50	88.568	0.006	0	116.355
Sisma	-15	200.524	29.033	ACTIVE	0.496	4.466	50	90.556	0.006	0	119.588
Sisma	-15.2	203.037	30.343	UL-RL	0.496	4.465	50	92.543	0.006	0	122.886
Sisma	-15.4	205.55	32.799	UL-RL	0.496	4.464	50	94.53	0.006	0	127.329
Sisma	-15.6	208.062	35.139	UL-RL	0.496	4.463	50	96.518	0.006	0	131.656
Sisma	-15.8	210.575	37.369	UL-RL	0.496	4.462	50	98.505	0.006	0	135.874
Sisma	-16	213.088	39.496	UL-RL	0.496	4.461	50	100.492	0.006	0	139.988
Sisma	-16.2	215.6	41.527	UL-RL	0.496	4.46	50	102.48	0.006	0	144.007
Sisma	-16.4	218.113	43.47	UL-RL	0.496	4.459	50	104.467	0.006	0	147.936
Sisma	-16.6	220.626	45.329	UL-RL	0.496	4.458	50	106.454	0.006	0	151.784
Sisma	-16.8	223.138	47.069	UL-RL	0.496	4.457	50	108.442	0.006	0	155.51
Sisma	-17	225.651	49.986	UL-RL	0.496	4.456	50	110.429	0.006	0	160.415
Sisma	-17.2	228.164	59.828	UL-RL	0.496	4.456	50	112.416	0.006	0	172.244
Sisma	-17.4	230.676	69.12	UL-RL	0.496	4.455	50	114.403	0.006	0	183.523
Sisma	-17.6	233.189	77.9	UL-RL	0.496	4.454	50	116.391	0.006	0	194.291
Sisma	-17.8	235.702	86.208	UL-RL	0.496	4.453	50	118.378	0.006	0	204.587
Sisma	-18	238.215	94.084	UL-RL	0.496	4.452	50	120.365	0.006	0	214.45
Sisma	-18.2	240.727	101.567	UL-RL	0.496	4.452	50	122.353	0.006	0	223.92
Sisma	-18.4	243.24	108.697	UL-RL	0.496	4.451	50	124.34	0.006	0	233.037
Sisma	-18.6	245.753	115.512	UL-RL	0.496	4.45	50	126.327	0.006	0	241.839
Sisma	-18.8	248.265	122.05	UL-RL	0.496	4.449	50	128.315	0.006	0	250.365
Sisma	-19	250.778	127.468	UL-RL	0.496	4.449	50	130.302	0.006	0	257.77
Sisma	-19.2	253.291	130.723	UL-RL	0.496	4.448	50	132.289	0.006	0	263.012
Sisma	-19.4	255.803	133.517	V-C	0.496	4.447	50	134.277	0.006	0	267.794
Sisma	-19.6	258.316	136.26	V-C	0.496	4.447	50	136.264	0.006	0	272.523
Sisma	-19.8	260.829	138.964	V-C	0.496	4.446	50	138.251	0.006	0	277.215
Sisma	-20	263.342	141.639	V-C	0.496	4.446	50	140.238	0.006	0	281.878
Sisma	-20.2	265.854	144.293	V-C	0.496	4.445	50	142.226	0.006	0	286.519
Sisma	-20.4	268.367	146.931	V-C	0.496	4.444	50	144.213	0.006	0	291.144
Sisma	-20.6	270.88	149.559	V-C	0.496	4.444	50	146.2	0.006	0	295.759
Sisma	-20.8	273.392	152.181	V-C	0.496	4.443	50	148.188	0.006	0	300.369
Sisma	-21	275.905	154.801	V-C	0.496	4.443	50	150.175	0.006	0	304.976
Sisma	-21.2	278.418	157.42	V-C	0.496	4.442	50	152.162	0.006	0	309.582

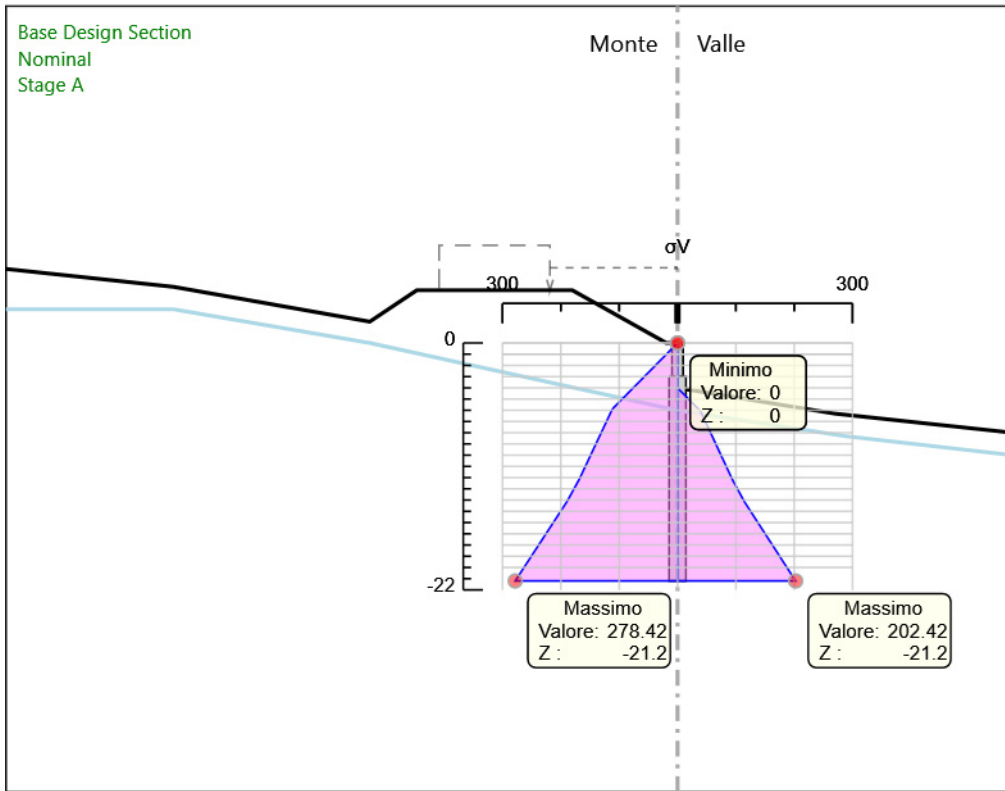
Design Assumption: Nominal Risultati Terreno Muro: LEFT Lato RIGHT											
Stage	Z (m)	Sigma V	Sigma H	Stato	Ka	Kp	Coesione	Pore	Gradiente U*	Peq	
Sisma	0	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-0.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-0.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-0.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-0.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-1	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-1.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-1.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-1.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-1.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-2.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-2.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-2.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-2.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-3	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-3.2	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-3.4	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-3.6	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-3.8	0	0	REMOVED	0	0	0	0	0	0	0
Sisma	-4	0	5.81	PASSIVE	0.3222.019	2.045	0	0	0	5.81	
Sisma	-4.2	3.8	13.482	PASSIVE	0.3222.019	2.045	0	0	0	13.482	
Sisma	-4.4	7.6	21.153	PASSIVE	0.3222.019	2.045	0	0	0	21.153	
Sisma	-4.6	11.4	28.825	PASSIVE	0.3222.019	2.045	0	0	0	28.825	
Sisma	-4.8	15.2	36.496	PASSIVE	0.3222.019	2.045	0	0	0	36.496	
Sisma	-5	19	44.167	PASSIVE	0.3222.019	2.045	0	0	0	44.167	
Sisma	-5.2	22.8	51.839	PASSIVE	0.3222.019	2.045	0	0	0	51.839	
Sisma	-5.4	26.6	59.51	PASSIVE	0.3222.019	2.045	0	0	0	59.51	
Sisma	-5.6	30.4	67.182	PASSIVE	0.3222.019	2.045	0	0	0	67.182	
Sisma	-5.8	34.2	74.853	PASSIVE	0.3222.019	2.045	0	0	0	74.853	
Sisma	-6	38	82.525	PASSIVE	0.3222.019	2.045	0	0	0	82.525	
Sisma	-6.2	40.589	87.343	PASSIVE	0.3222.009	2.045	1.211	0.006	0	88.554	
Sisma	-6.4	42.377	90.273	PASSIVE	0.3221.994	2.045	3.223	0.006	0	93.496	
Sisma	-6.6	44.164	93.204	PASSIVE	0.322 1.98	2.045	5.236	0.006	0	98.44	
Sisma	-6.8	45.951	96.137	PASSIVE	0.3221.967	2.045	7.249	0.006	0	103.386	
Sisma	-7	47.739	99.072	PASSIVE	0.3221.956	2.045	9.261	0.006	0	108.333	
Sisma	-7.2	49.526	102.007	PASSIVE	0.3221.945	2.045	11.274	0.006	0	113.281	
Sisma	-7.4	51.313	104.944	PASSIVE	0.3221.934	2.045	13.287	0.006	0	118.23	
Sisma	-7.6	53.101	106.543	V-C	0.3221.925	2.045	15.299	0.006	0	121.843	
Sisma	-7.8	54.888	105.042	V-C	0.3221.916	2.045	17.312	0.006	0	122.354	
Sisma	-8	56.675	103.565	V-C	0.3221.908	2.045	19.325	0.006	0	122.89	
Sisma	-8.2	58.462	102.112	V-C	0.322 1.9	2.045	21.337	0.006	0	123.45	
Sisma	-8.4	60.25	100.685	V-C	0.3221.892	2.045	23.35	0.006	0	124.036	
Sisma	-8.6	62.037	99.284	V-C	0.3221.885	2.045	25.363	0.006	0	124.647	
Sisma	-8.8	63.824	97.911	V-C	0.3221.879	2.045	27.376	0.006	0	125.286	
Sisma	-9	65.612	96.565	V-C	0.3221.873	2.045	29.388	0.006	0	125.953	
Sisma	-9.2	67.399	95.247	V-C	0.3221.867	2.045	31.401	0.006	0	126.648	
Sisma	-9.4	69.186	93.959	V-C	0.3221.861	2.045	33.414	0.006	0	127.373	
Sisma	-9.6	70.974	92.701	V-C	0.3221.856	2.045	35.426	0.006	0	128.128	
Sisma	-9.8	72.761	91.474	V-C	0.3221.851	2.045	37.439	0.006	0	128.913	
Sisma	-10	74.548	90.279	V-C	0.3221.846	2.045	39.452	0.006	0	129.73	
Sisma	-10.2	76.335	89.116	V-C	0.3221.842	2.045	41.464	0.006	0	130.58	
Sisma	-10.4	78.123	87.986	V-C	0.3221.837	2.045	43.477	0.006	0	131.463	
Sisma	-10.6	79.91	86.89	V-C	0.3221.833	2.045	45.49	0.006	0	132.38	
Sisma	-10.8	81.697	85.83	V-C	0.3221.829	2.045	47.502	0.006	0	133.332	
Sisma	-11	83.485	84.805	V-C	0.3221.825	2.045	49.515	0.006	0	134.32	
Sisma	-11.2	85.272	83.817	V-C	0.3221.822	2.045	51.528	0.006	0	135.344	
Sisma	-11.4	87.059	82.866	V-C	0.3221.818	2.045	53.54	0.006	0	136.407	
Sisma	-11.6	88.847	81.955	V-C	0.3221.815	2.045	55.553	0.006	0	137.508	
Sisma	-11.8	90.634	81.083	V-C	0.3221.812	2.045	57.566	0.006	0	138.649	
Sisma	-12	92.421	80.253	V-C	0.3221.808	2.045	59.579	0.006	0	139.832	
Sisma	-12.2	94.329	145.73	V-C	0.2982.082	10.223	61.591	0.006	0	207.322	
Sisma	-12.4	96.416	141.471	V-C	0.2982.079	10.223	63.604	0.006	0	205.075	
Sisma	-12.6	98.503	137.359	V-C	0.2982.076	10.223	65.617	0.006	0	202.975	
Sisma	-12.8	100.59	133.398	V-C	0.2982.074	10.223	67.629	0.006	0	201.027	
Sisma	-13	102.678	129.59	V-C	0.2982.071	10.223	69.642	0.006	0	199.232	
Sisma	-13.2	104.765	125.939	V-C	0.2982.069	10.223	71.655	0.006	0	197.593	
Sisma	-13.4	106.852	122.446	V-C	0.2982.067	10.223	73.667	0.006	0	196.113	
Sisma	-13.6	108.94	119.113	V-C	0.2982.065	10.223	75.68	0.006	0	194.793	
Sisma	-13.8	111.027	115.942	V-C	0.2982.062	10.223	77.693	0.006	0	193.635	

Design Assumption: Nominal Risultati Terreno Muro:											
Stage	Z (m)	Sigma V	Sigma H	LEFT Stato	Lato		RIGHT				
					Ka	Kp	Coesione	Pore	Gradiente U*	Peq	
Sisma	-14	113.114	112.935	V-C	0.298	2.06	10.223	79.705	0.006	0	192.64
Sisma	-14.2	115.362	125.498	V-C	0.298	2.141	51.116	81.718	0.006	0	207.216
Sisma	-14.4	117.849	121.877	V-C	0.298	2.14	51.116	83.731	0.006	0	205.608
Sisma	-14.6	120.336	118.472	V-C	0.298	2.138	51.116	85.744	0.006	0	204.216
Sisma	-14.8	122.824	115.284	V-C	0.298	2.136	51.116	87.756	0.006	0	203.04
Sisma	-15	125.311	112.31	V-C	0.298	2.135	51.116	89.769	0.006	0	202.079
Sisma	-15.2	127.798	109.548	V-C	0.298	2.133	51.116	91.782	0.006	0	201.329
Sisma	-15.4	130.286	106.993	V-C	0.298	2.132	51.116	93.794	0.006	0	200.788
Sisma	-15.6	132.773	104.643	V-C	0.298	2.13	51.116	95.807	0.006	0	200.45
Sisma	-15.8	135.26	102.036	UL-RL	0.298	2.129	51.116	97.82	0.006	0	199.856
Sisma	-16	137.747	99.654	UL-RL	0.298	2.127	51.116	99.832	0.006	0	199.487
Sisma	-16.2	140.235	97.508	UL-RL	0.298	2.126	51.116	101.845	0.006	0	199.353
Sisma	-16.4	142.722	95.586	UL-RL	0.298	2.125	51.116	103.858	0.006	0	199.443
Sisma	-16.6	145.209	93.878	UL-RL	0.298	2.124	51.116	105.87	0.006	0	199.748
Sisma	-16.8	147.697	92.372	UL-RL	0.298	2.123	51.116	107.883	0.006	0	200.256
Sisma	-17	150.184	91.058	UL-RL	0.298	2.121	51.116	109.896	0.006	0	200.954
Sisma	-17.2	152.671	89.923	UL-RL	0.298	2.12	51.116	111.908	0.006	0	201.831
Sisma	-17.4	155.159	88.954	UL-RL	0.298	2.119	51.116	113.921	0.006	0	202.875
Sisma	-17.6	157.646	88.139	UL-RL	0.298	2.118	51.116	115.934	0.006	0	204.073
Sisma	-17.8	160.133	87.465	UL-RL	0.298	2.117	51.116	117.947	0.006	0	205.412
Sisma	-18	162.621	86.92	UL-RL	0.298	2.116	51.116	119.959	0.006	0	206.88
Sisma	-18.2	165.108	86.492	UL-RL	0.298	2.115	51.116	121.972	0.006	0	208.464
Sisma	-18.4	167.595	84.763	UL-RL	0.298	2.115	51.116	123.985	0.006	0	208.748
Sisma	-18.6	170.083	82.234	UL-RL	0.298	2.114	51.116	125.997	0.006	0	208.231
Sisma	-18.8	172.57	79.88	UL-RL	0.298	2.113	51.116	128.01	0.006	0	207.89
Sisma	-19	175.057	77.679	UL-RL	0.298	2.112	51.116	130.023	0.006	0	207.702
Sisma	-19.2	177.544	75.609	UL-RL	0.298	2.111	51.116	132.036	0.006	0	207.644
Sisma	-19.4	180.032	73.649	UL-RL	0.298	2.11	51.116	134.048	0.006	0	207.697
Sisma	-19.6	182.519	71.78	UL-RL	0.298	2.11	51.116	136.061	0.006	0	207.841
Sisma	-19.8	185.006	69.984	UL-RL	0.298	2.109	51.116	138.074	0.006	0	208.058
Sisma	-20	187.494	68.246	UL-RL	0.298	2.108	51.116	140.086	0.006	0	208.333
Sisma	-20.2	189.981	66.551	UL-RL	0.298	2.108	51.116	142.099	0.006	0	208.65
Sisma	-20.4	192.468	64.887	UL-RL	0.298	2.107	51.116	144.112	0.006	0	208.999
Sisma	-20.6	194.956	63.243	UL-RL	0.298	2.106	51.116	146.124	0.006	0	209.367
Sisma	-20.8	197.443	61.61	UL-RL	0.298	2.106	51.116	148.137	0.006	0	209.748
Sisma	-21	199.93	59.984	UL-RL	0.298	2.105	51.116	150.15	0.006	0	210.134
Sisma	-21.2	202.418	58.36	UL-RL	0.298	2.104	51.116	152.162	0.006	0	210.522

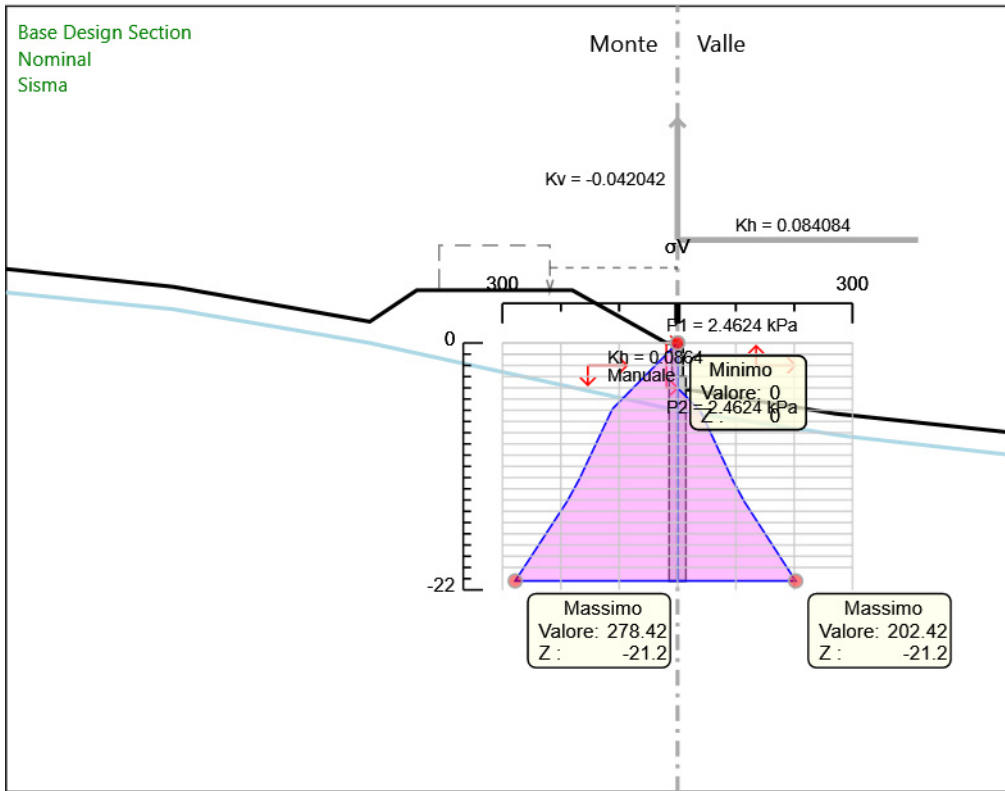
5.6. Grafico Risultati Terreno Sigma V



Design Assumption: Nominal
Stage: Finale
Sigma V

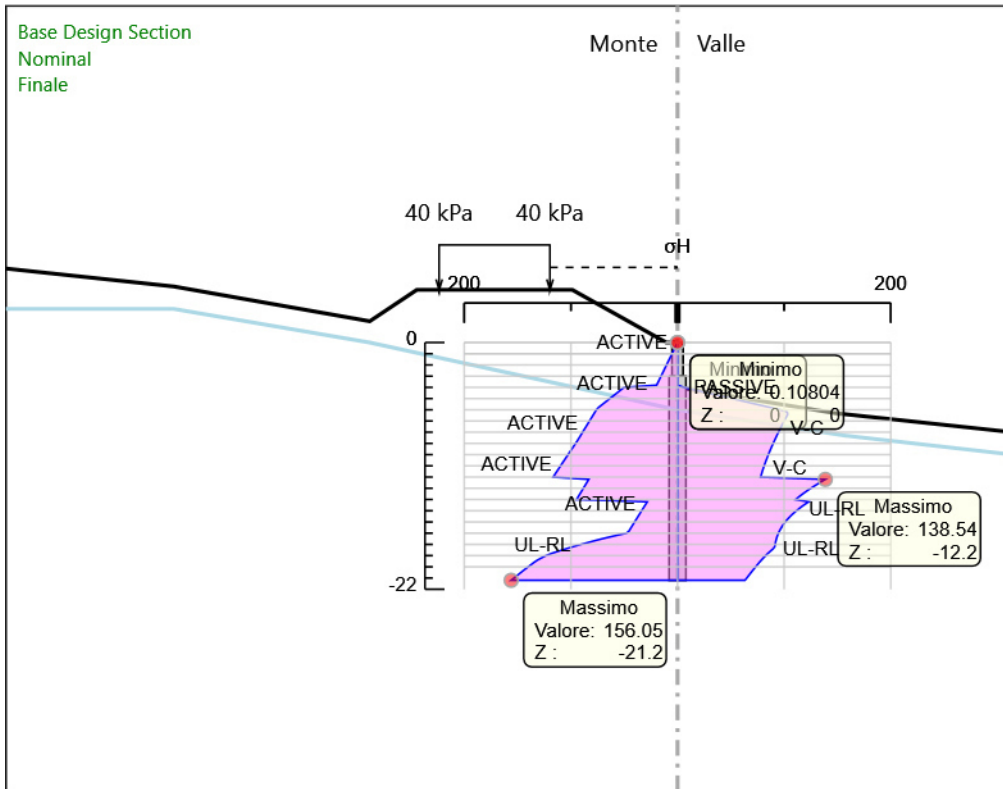


Design Assumption: Nominal
Stage: Stage A
Sigma V

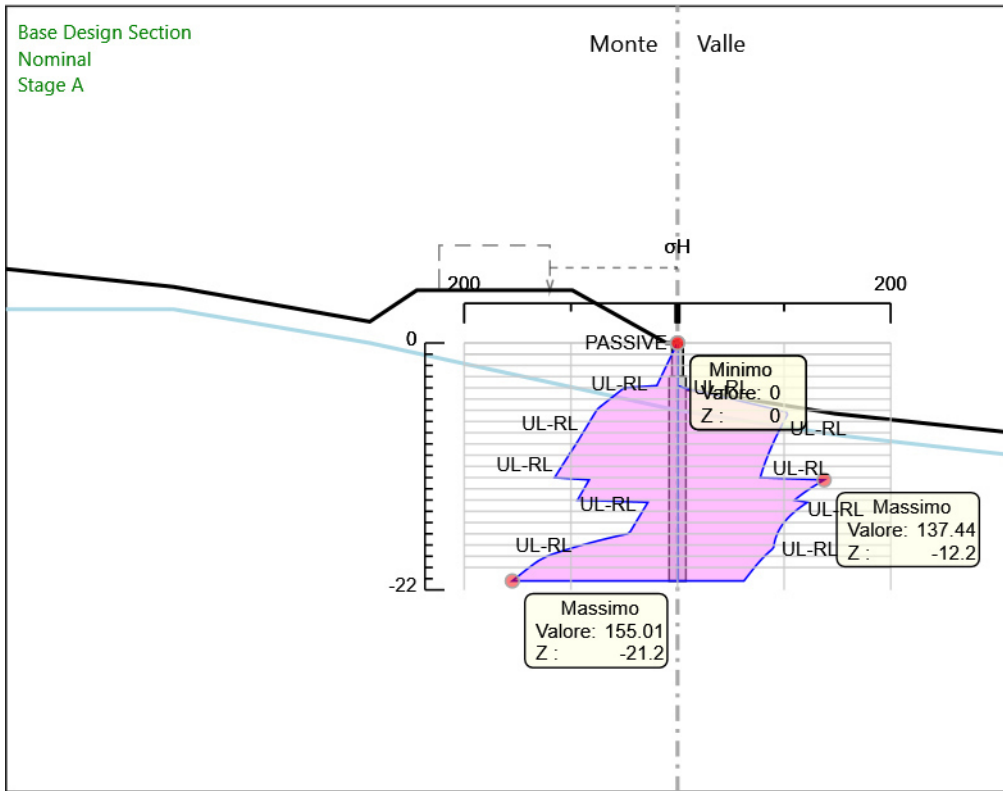


Design Assumption: Nominal
Stage: Sisma
Sigma V

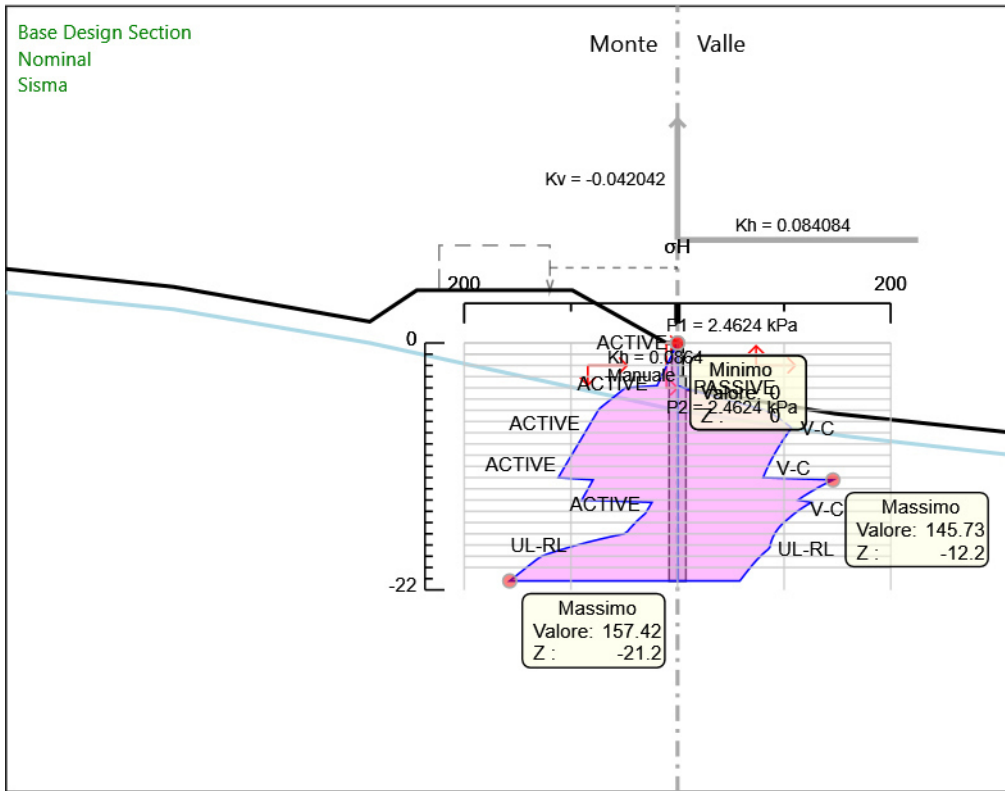
5.7. Grafico Risultati Terreno Sigma H



Design Assumption: Nominal
Stage: Finale
Sigma H

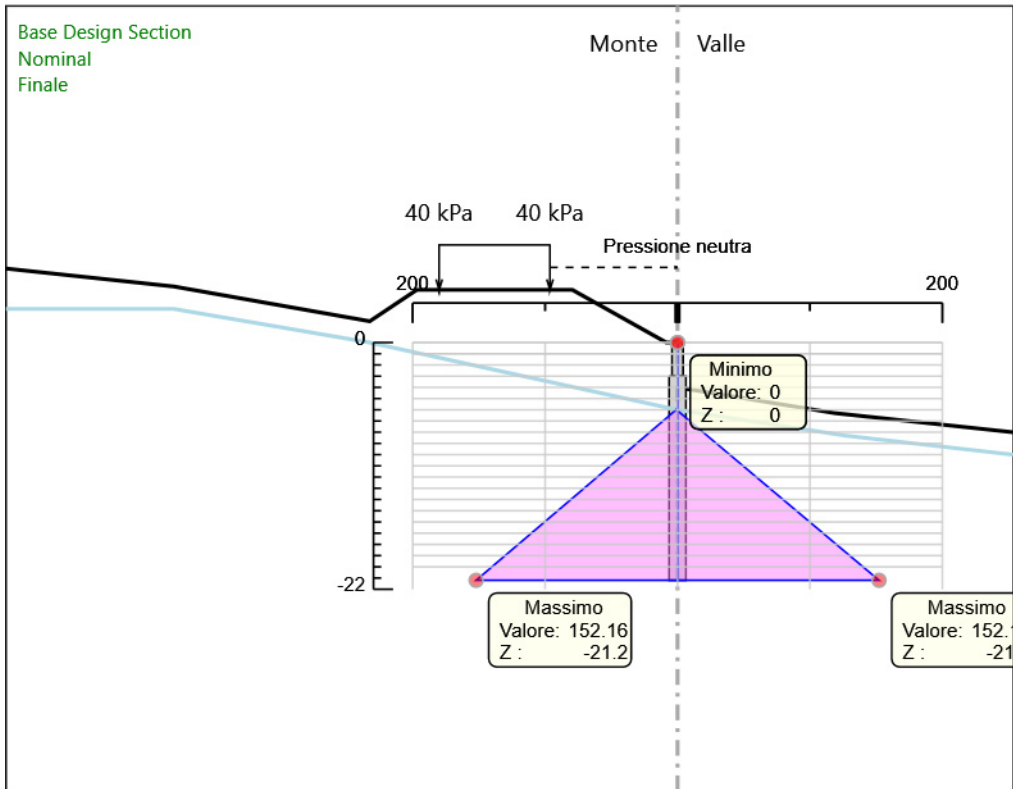


Design Assumption: Nominal
Stage: Stage A
Sigma H

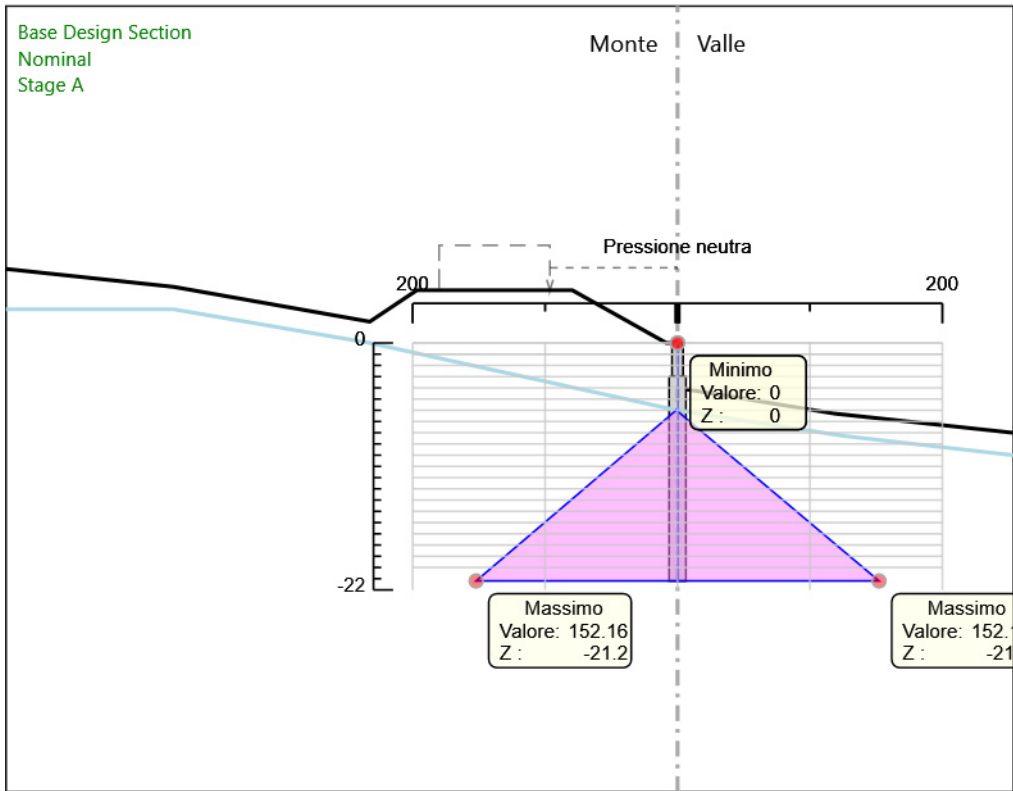


Design Assumption: Nominal
Stage: Sisma
Sigma H

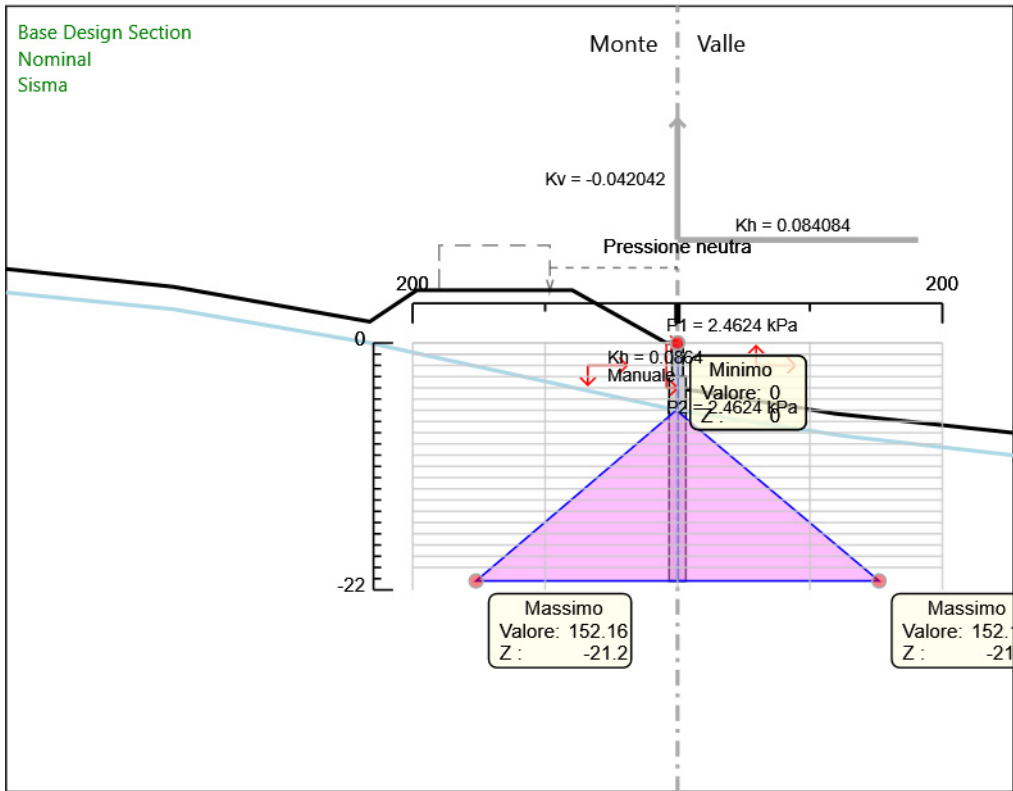
5.8. Grafico Risultati Terreno Pore



Design Assumption: Nominal
Stage: Finale
Pore

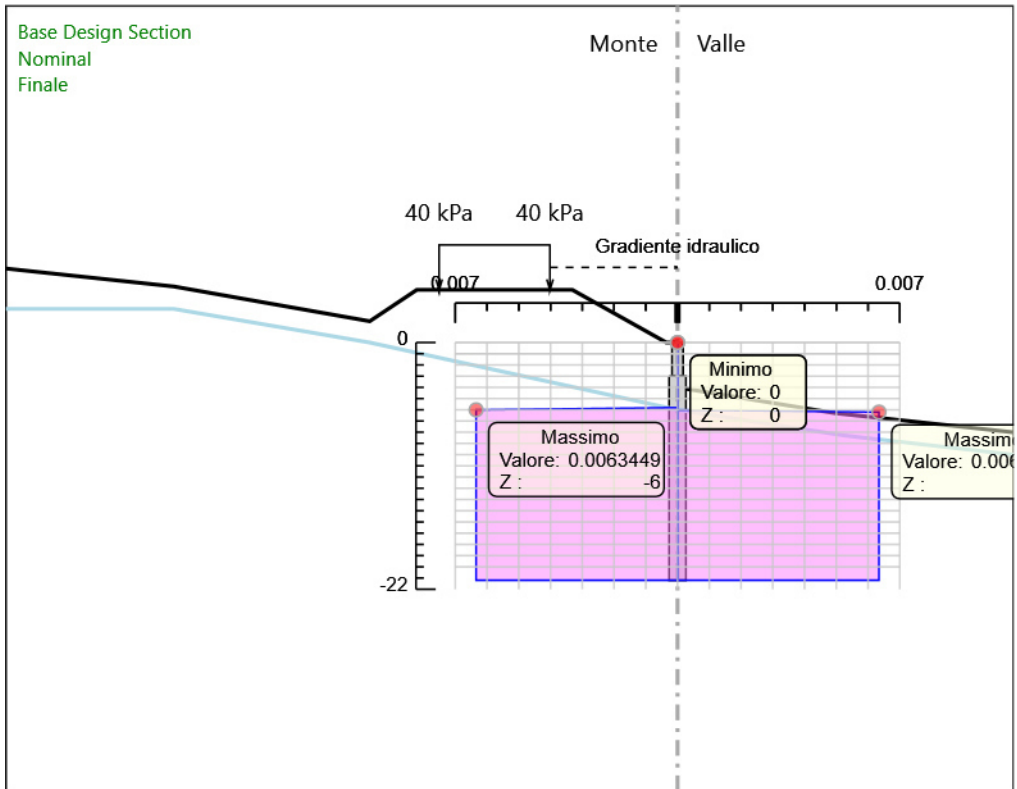


Design Assumption: Nominal
Stage: Stage A
Pore

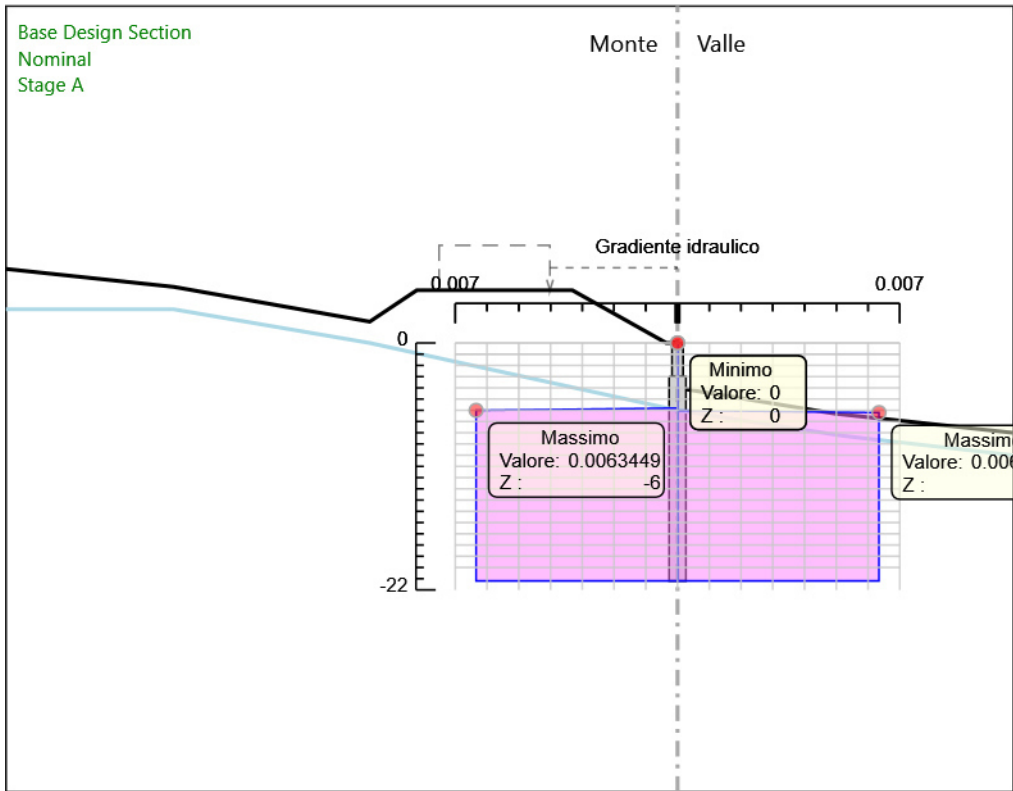


Design Assumption: Nominal
Stage: Sisma
Pore

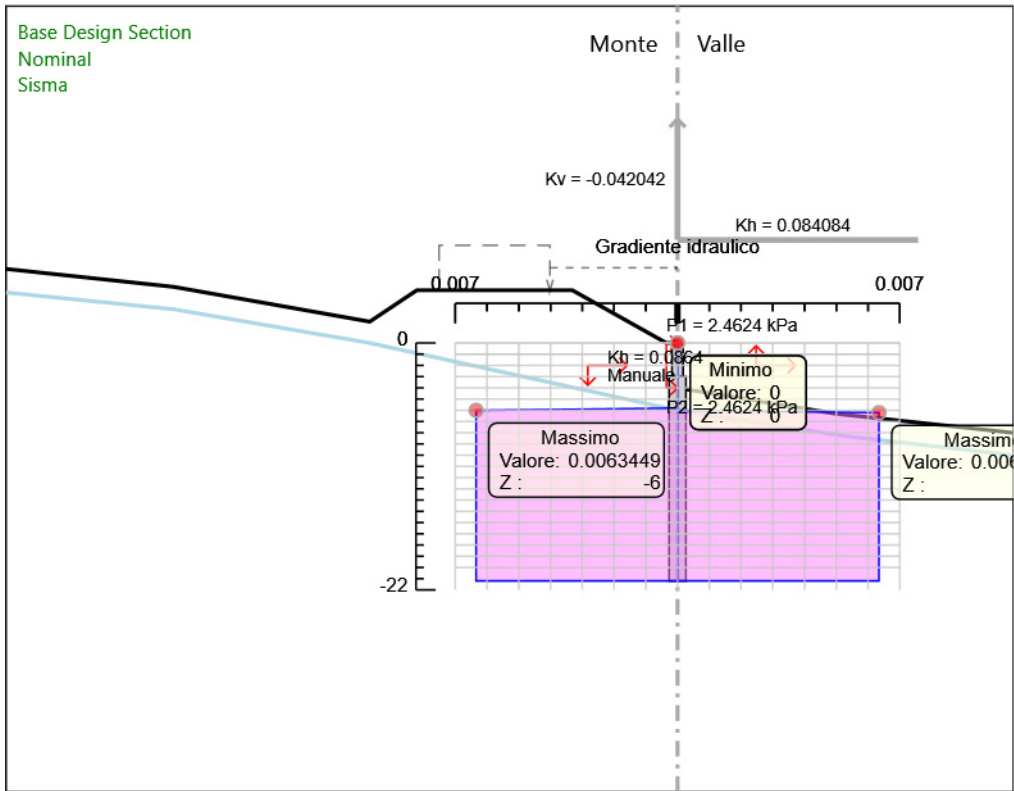
5.9. Grafico Risultati Terreno Gradiente



Design Assumption: Nominal
Stage: Finale
Gradiente

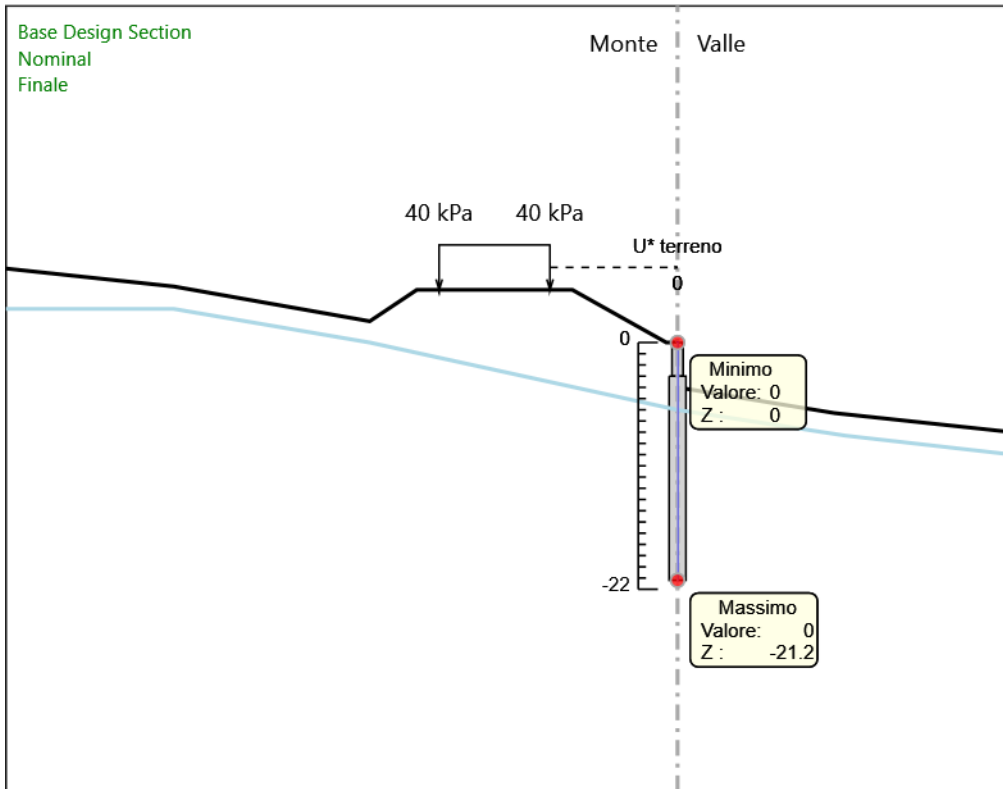


Design Assumption: Nominal
Stage: Stage A
Gradiente

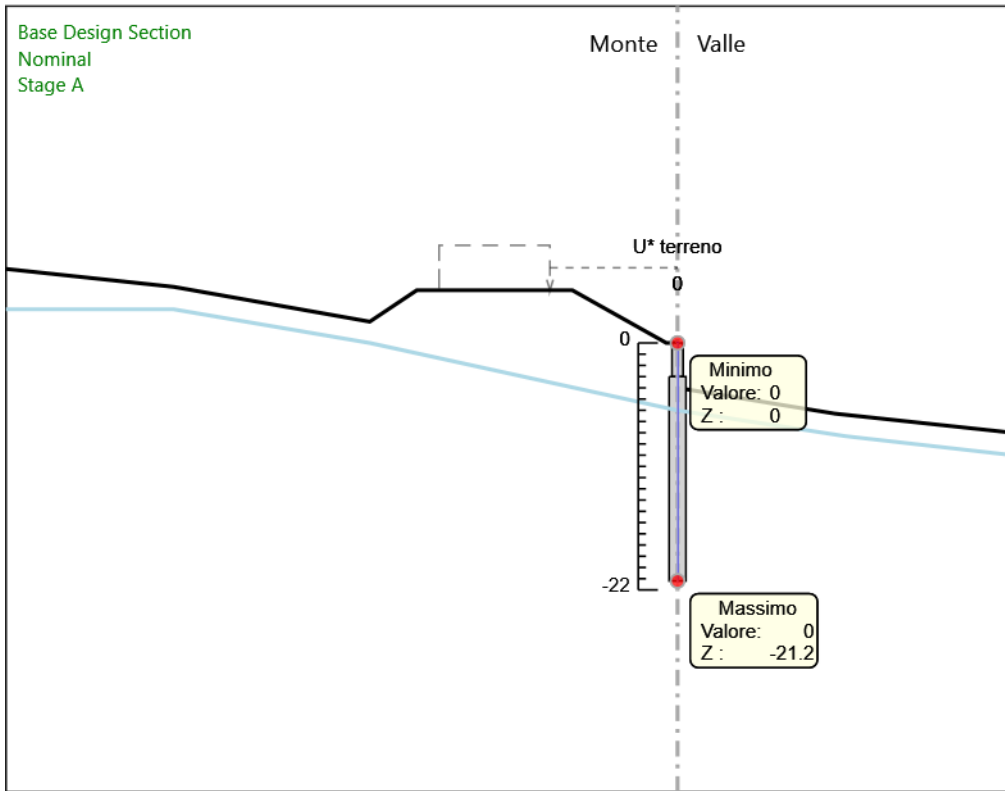


Design Assumption: Nominal
Stage: Sisma
Gradiente

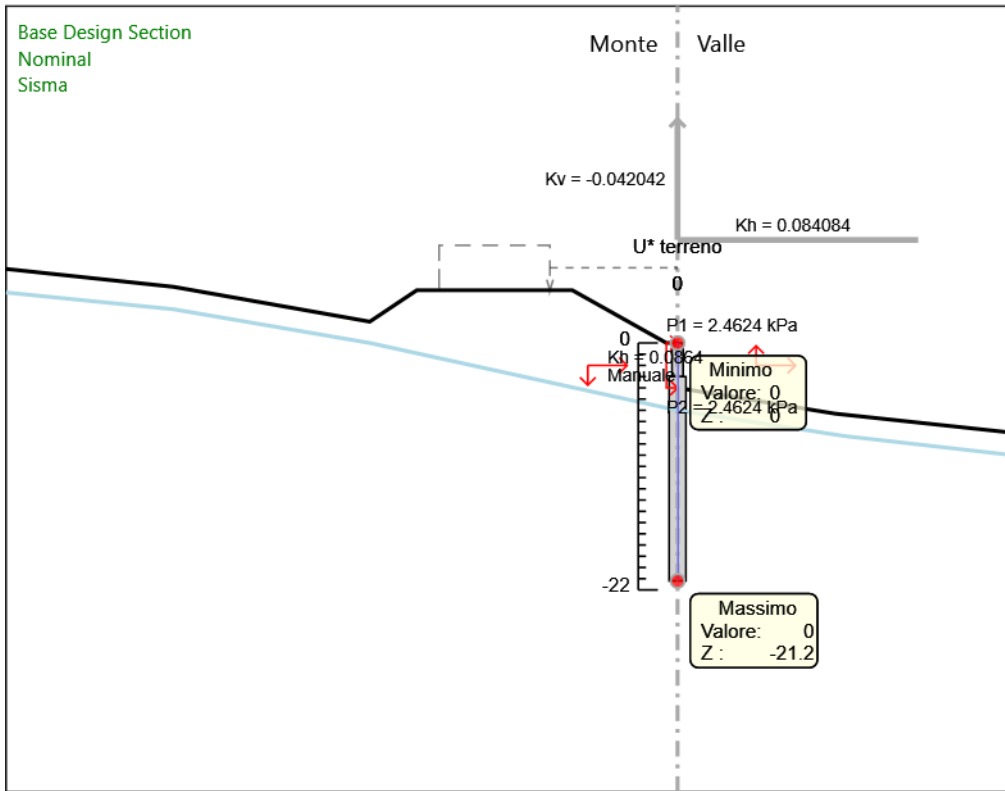
5.10. Grafico Risultati Terreno U*



Design Assumption: Nominal
Stage: Finale
U*



Design Assumption: Nominal
Stage: Stage A
U*



Design Assumption: Nominal
Stage: Sisma
 U^*

5.10. Riepilogo spinte

Design Assumption: Nominal Stage	Tipo Risultato: Riepilogo spinte Vera effettiva (kN/m)	Muro: LEFT		Lato LEFT		Percentuale di resistenza massima	Vera / Attiva
		Pressione neutra (kN/m)	Vera Totale (kN/m)	Min ammissibile (kN/m)	Max ammissibile (kN/m)		
Finale	1534.3	1165.1	2699.4	1295.7	17368.4	8.83%	1.18
Stage A	1521.5	1165.1	2686.6	1230.4	16810.9	9.05%	1.24
Sisma	1508.1	1165.1	2673.2	1230.4	16920.4	8.91%	1.23

Design Assumption: Nominal Stage	Tipo Risultato: Riepilogo spinte Vera effettiva (kN/m)	Muro: LEFT		Lato RIGHT		Percentuale di resistenza massima	Vera / Attiva
		Pressione neutra (kN/m)	Vera Totale (kN/m)	Min ammissibile (kN/m)	Max ammissibile (kN/m)		
Finale	1549	1150.4	2699.4	168.4	5896	26.27%	9.2
Stage A	1536.2	1150.4	2686.6	168.4	5896	26.05%	9.12
Sisma	1541.3	1150.4	2691.7	165.9	4802.1	32.1%	9.29

6. Descrizione Coefficienti Design Assumption

Coefficienti A

Nome	Carichi Per- manenti Sfavorevoli (F_dead_lo ad_unfa- vour)	Carichi Per- manenti Favorevoli (F_dead_lo ad_favour)	Carichi Va- riabili Sfa- vorevoli (F_live_loa d_unfa- vour)	Carichi Va- riabili Fa- vorevoli (F_live_loa d_favour)	Carico Si- smico (F_seism_ load)	Pres sioni Lato Mon te (F_ Wa- terD R)	Pres sioni Lato Vall e (F_ Wa- ter Res)	Carichi Perma- nenti De- stabiliz- zanti (F_UPL_G DStab)	Carichi Perma- nenti Sta- bilizzanti (F_UPL_G Stab)	Carichi Va- riabili De- stabiliz- zanti (F_UPL_Q DStab)	Carichi Perma- nenti De- stabiliz- zanti (F_HYD_G DStab)	Carichi Perma- nenti Sta- bilizzanti (F_HYD_G Stab)	Carichi Va- riabili De- stabiliz- zanti (F_HYD_Q DStab)
Simbolo	γ_G	γ_G	γ_Q	γ_Q	γ_{QE}	γ_G	γ_G	γ_{Gdst}	γ_{Gstb}	γ_{Qdst}	γ_{Gdst}	γ_{Gstb}	γ_{Qdst}
Nominal	1	1	1	1	1	1	1	1	1	1	1	1	1
SLE (Rara/Fr equente /Quasi Perma- nente)	1	1	1	1	0	1	1	1	1	1	1	1	1
A1+M1+ R1 (R3 per tiranti)	1.3	1	1.5	1	0	1.3	1	1	1	1	1.3	0.9	1
A2+M2+ R1	1	1	1.3	1	0	1	1	1	1	1	1.3	0.9	1
SISMICA STR	1	1	1	1	1	1	1	1	1	1	1	1	1
SISMICA GEO	1	1	1	1	1	1	1	1	1	1	1.3	0.9	1

Coefficienti M

Nome	Parziale su tan(ϕ') (F_Fr)	Parziale su c' (F_eff_cohe)	Parziale su Su (F_Su)	Parziale su qu (F_qu)	Parziale su peso specifico (F_gamma)
Simbolo	γ_ϕ	γ_c	γ_{cu}	γ_{qu}	γ_γ
Nominal	1	1	1	1	1
SLE (Rara/Fre- quente/Quasi Per- manente)	1	1	1	1	1
A1+M1+R1 (R3 per tiranti)	1	1	1	1	1
A2+M2+R1	1.25	1.25	1.4	1	1
SISMICA STR	1	1	1	1	1
SISMICA GEO	1.25	1.25	1.4	1	1

Coefficienti R

Nome	Parziale resistenza terreno (es. Kp) (F_Soil_Res_walls)	Parziale resistenza Tiranti permanenti (F_Anch_P)	Parziale resistenza Tiranti temporanei (F_Anch_T)	Parziale elementi strutturali (F_wall)
Simbolo	γ_{Re}	γ_{ap}	γ_{at}	
Nominal	1	1	1	1
SLE (Rara/Fre- quente/Quasi Perma- nente)	1	1	1	1
A1+M1+R1 (R3 per tiranti)	1	1.2	1.1	1
A2+M2+R1	1	1.2	1.1	1
SISMICA STR	1	1.2	1.1	1
SISMICA GEO	1	1.2	1.1	1

6.1. Risultati SLE (Rara/Frequente/Quasi Permanente)

6.1.1. Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: Finale

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Tipo Risultato: Spostamento			Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)	
Finale	0	20.14	
Finale	-0.2	19.85	
Finale	-0.4	19.55	
Finale	-0.6	19.25	
Finale	-0.8	18.96	
Finale	-1	18.66	
Finale	-1.2	18.37	
Finale	-1.4	18.07	
Finale	-1.6	17.77	
Finale	-1.8	17.48	
Finale	-2	17.18	
Finale	-2.2	16.89	
Finale	-2.4	16.59	
Finale	-2.6	16.3	
Finale	-2.8	16	
Finale	-3	15.71	
Finale	-3.2	15.41	
Finale	-3.4	15.12	
Finale	-3.6	14.82	
Finale	-3.8	14.53	
Finale	-4	14.24	
Finale	-4.2	13.94	
Finale	-4.4	13.65	
Finale	-4.6	13.36	
Finale	-4.8	13.07	
Finale	-5	12.78	
Finale	-5.2	12.49	
Finale	-5.4	12.2	
Finale	-5.6	11.92	
Finale	-5.8	11.63	
Finale	-6	11.35	
Finale	-6.2	11.06	
Finale	-6.4	10.78	
Finale	-6.6	10.5	
Finale	-6.8	10.23	
Finale	-7	9.95	
Finale	-7.2	9.68	
Finale	-7.4	9.41	
Finale	-7.6	9.14	
Finale	-7.8	8.87	
Finale	-8	8.61	
Finale	-8.2	8.34	
Finale	-8.4	8.08	
Finale	-8.6	7.83	
Finale	-8.8	7.57	
Finale	-9	7.32	
Finale	-9.2	7.07	
Finale	-9.4	6.82	
Finale	-9.6	6.58	
Finale	-9.8	6.34	
Finale	-10	6.1	
Finale	-10.2	5.87	
Finale	-10.4	5.63	
Finale	-10.6	5.41	
Finale	-10.8	5.18	
Finale	-11	4.96	
Finale	-11.2	4.74	
Finale	-11.4	4.53	
Finale	-11.6	4.32	
Finale	-11.8	4.11	
Finale	-12	3.91	
Finale	-12.2	3.71	
Finale	-12.4	3.51	
Finale	-12.6	3.33	

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Finale	-12.8	3.14
Finale	-13	2.96
Finale	-13.2	2.79
Finale	-13.4	2.62
Finale	-13.6	2.46
Finale	-13.8	2.3
Finale	-14	2.15
Finale	-14.2	2
Finale	-14.4	1.86
Finale	-14.6	1.73
Finale	-14.8	1.6
Finale	-15	1.48
Finale	-15.2	1.36
Finale	-15.4	1.25
Finale	-15.6	1.14
Finale	-15.8	1.04
Finale	-16	0.94
Finale	-16.2	0.86
Finale	-16.4	0.77
Finale	-16.6	0.69
Finale	-16.8	0.62
Finale	-17	0.54
Finale	-17.2	0.48
Finale	-17.4	0.42
Finale	-17.6	0.36
Finale	-17.8	0.3
Finale	-18	0.25
Finale	-18.2	0.2
Finale	-18.4	0.15
Finale	-18.6	0.11
Finale	-18.8	0.07
Finale	-19	0.03
Finale	-19.2	-0.01
Finale	-19.4	-0.05
Finale	-19.6	-0.09
Finale	-19.8	-0.12
Finale	-20	-0.16
Finale	-20.2	-0.19
Finale	-20.4	-0.23
Finale	-20.6	-0.26
Finale	-20.8	-0.29
Finale	-21	-0.33
Finale	-21.2	-0.36

6.1.2. Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: Finale

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	0	0	-0.01
Finale	-0.2	0	-0.01
Finale	-0.4	-0.05	-0.24
Finale	-0.6	-0.18	-0.67
Finale	-0.8	-0.44	-1.3
Finale	-1	-0.87	-2.14
Finale	-1.2	-1.51	-3.19
Finale	-1.4	-2.4	-4.44
Finale	-1.6	-3.58	-5.9
Finale	-1.8	-5.09	-7.56
Finale	-2	-6.98	-9.43
Finale	-2.2	-9.28	-11.5
Finale	-2.4	-12.03	-13.78
Finale	-2.6	-15.29	-16.26
Finale	-2.8	-19.08	-18.95
Finale	-3	-23.45	-21.85

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-3	-23.45	-24.95
Finale	-3.2	-28.44	-24.95
Finale	-3.4	-34.09	-28.26
Finale	-3.6	-40.44	-31.78
Finale	-3.8	-47.54	-35.5
Finale	-4	-55.43	-39.42
Finale	-4.2	-65.07	-48.23
Finale	-4.4	-76.23	-55.76
Finale	-4.6	-88.63	-62.02
Finale	-4.8	-102.03	-67
Finale	-5	-116.17	-70.7
Finale	-5.2	-130.8	-73.14
Finale	-5.4	-145.65	-74.29
Finale	-5.6	-160.49	-74.17
Finale	-5.8	-175.04	-72.78
Finale	-6	-189.07	-70.11
Finale	-6.2	-202.32	-66.24
Finale	-6.4	-214.63	-61.55
Finale	-6.6	-226.03	-57
Finale	-6.8	-236.61	-52.94
Finale	-7	-246.49	-49.36
Finale	-7.2	-255.74	-46.25
Finale	-7.4	-264.46	-43.62
Finale	-7.6	-272.75	-41.46
Finale	-7.8	-280.7	-39.77
Finale	-8	-288.41	-38.54
Finale	-8.2	-295.97	-37.78
Finale	-8.4	-303.46	-37.47
Finale	-8.6	-310.99	-37.62
Finale	-8.8	-318.63	-38.22
Finale	-9	-326.48	-39.27
Finale	-9.2	-334.64	-40.79
Finale	-9.4	-343.2	-42.78
Finale	-9.6	-352.25	-45.23
Finale	-9.8	-361.88	-48.14
Finale	-10	-372.18	-51.51
Finale	-10.2	-383.24	-55.32
Finale	-10.4	-395.16	-59.58
Finale	-10.6	-408.01	-64.28
Finale	-10.8	-421.89	-69.41
Finale	-11	-436.89	-74.96
Finale	-11.2	-453.08	-80.95
Finale	-11.4	-470.55	-87.34
Finale	-11.6	-489.38	-94.15
Finale	-11.8	-509.65	-101.36
Finale	-12	-531.44	-108.98
Finale	-12.2	-554.84	-116.98
Finale	-12.4	-576.07	-106.16
Finale	-12.6	-595.33	-96.3

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-12.8	-612.81	-87.39
Finale	-13	-628.69	-79.4
Finale	-13.2	-643.15	-72.31
Finale	-13.4	-656.37	-66.09
Finale	-13.6	-668.51	-60.71
Finale	-13.8	-679.74	-56.16
Finale	-14	-690.22	-52.4
Finale	-14.2	-700.11	-49.41
Finale	-14.4	-706.24	-30.68
Finale	-14.6	-708.81	-12.84
Finale	-14.8	-707.98	4.14
Finale	-15	-703.92	20.3
Finale	-15.2	-696.79	35.68
Finale	-15.4	-686.72	50.32
Finale	-15.6	-673.88	64.24
Finale	-15.8	-658.38	77.49
Finale	-16	-640.36	90.1
Finale	-16.2	-619.94	102.1
Finale	-16.4	-597.23	113.52
Finale	-16.6	-572.35	124.41
Finale	-16.8	-545.4	134.78
Finale	-17	-516.46	144.69
Finale	-17.2	-485.67	153.92
Finale	-17.4	-453.46	161.08
Finale	-17.6	-420.19	166.32
Finale	-17.8	-386.25	169.73
Finale	-18	-351.96	171.44
Finale	-18.2	-317.65	171.53
Finale	-18.4	-283.63	170.1
Finale	-18.6	-250.25	166.94
Finale	-18.8	-217.85	161.95
Finale	-19	-186.81	155.22
Finale	-19.2	-157.41	146.98
Finale	-19.4	-129.91	137.54
Finale	-19.6	-104.52	126.91
Finale	-19.8	-81.46	115.31
Finale	-20	-60.9	102.79
Finale	-20.2	-43.03	89.38
Finale	-20.4	-28.01	75.07
Finale	-20.6	-16.03	59.9
Finale	-20.8	-7.26	43.88
Finale	-21	-1.86	27
Finale	-21.2	0	9.28

6.1.3. Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: Stage A

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Tipo Risultato: Spostamento	Muro: LEFT	
Stage	Z (m)	Spostamento orizzontale (mm)
Stage A	0	20.13
Stage A	-0.2	19.83
Stage A	-0.4	19.54
Stage A	-0.6	19.24
Stage A	-0.8	18.94
Stage A	-1	18.65
Stage A	-1.2	18.35
Stage A	-1.4	18.06
Stage A	-1.6	17.76
Stage A	-1.8	17.46
Stage A	-2	17.17
Stage A	-2.2	16.87
Stage A	-2.4	16.58
Stage A	-2.6	16.28
Stage A	-2.8	15.99
Stage A	-3	15.69
Stage A	-3.2	15.4
Stage A	-3.4	15.1
Stage A	-3.6	14.81
Stage A	-3.8	14.52
Stage A	-4	14.22
Stage A	-4.2	13.93
Stage A	-4.4	13.64
Stage A	-4.6	13.34
Stage A	-4.8	13.05
Stage A	-5	12.76
Stage A	-5.2	12.47
Stage A	-5.4	12.19
Stage A	-5.6	11.9
Stage A	-5.8	11.61
Stage A	-6	11.33
Stage A	-6.2	11.05
Stage A	-6.4	10.77
Stage A	-6.6	10.49
Stage A	-6.8	10.21
Stage A	-7	9.93
Stage A	-7.2	9.66
Stage A	-7.4	9.39
Stage A	-7.6	9.12
Stage A	-7.8	8.85
Stage A	-8	8.59
Stage A	-8.2	8.33
Stage A	-8.4	8.07
Stage A	-8.6	7.81
Stage A	-8.8	7.55
Stage A	-9	7.3
Stage A	-9.2	7.05
Stage A	-9.4	6.81
Stage A	-9.6	6.56
Stage A	-9.8	6.32
Stage A	-10	6.08
Stage A	-10.2	5.85
Stage A	-10.4	5.62
Stage A	-10.6	5.39
Stage A	-10.8	5.16
Stage A	-11	4.94
Stage A	-11.2	4.72
Stage A	-11.4	4.51
Stage A	-11.6	4.3
Stage A	-11.8	4.09
Stage A	-12	3.89
Stage A	-12.2	3.69
Stage A	-12.4	3.5
Stage A	-12.6	3.31
Stage A	-12.8	3.13
Stage A	-13	2.95
Stage A	-13.2	2.78

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Tipo Risultato: Spostamento		
Stage	Z (m)	Muro: LEFT Spostamento orizzontale (mm)
Stage A	-13.4	2.61
Stage A	-13.6	2.44
Stage A	-13.8	2.29
Stage A	-14	2.14
Stage A	-14.2	1.99
Stage A	-14.4	1.85
Stage A	-14.6	1.71
Stage A	-14.8	1.59
Stage A	-15	1.46
Stage A	-15.2	1.35
Stage A	-15.4	1.23
Stage A	-15.6	1.13
Stage A	-15.8	1.03
Stage A	-16	0.93
Stage A	-16.2	0.84
Stage A	-16.4	0.76
Stage A	-16.6	0.68
Stage A	-16.8	0.6
Stage A	-17	0.53
Stage A	-17.2	0.47
Stage A	-17.4	0.4
Stage A	-17.6	0.35
Stage A	-17.8	0.29
Stage A	-18	0.24
Stage A	-18.2	0.19
Stage A	-18.4	0.14
Stage A	-18.6	0.1
Stage A	-18.8	0.06
Stage A	-19	0.02
Stage A	-19.2	-0.02
Stage A	-19.4	-0.06
Stage A	-19.6	-0.1
Stage A	-19.8	-0.13
Stage A	-20	-0.17
Stage A	-20.2	-0.2
Stage A	-20.4	-0.24
Stage A	-20.6	-0.27
Stage A	-20.8	-0.3
Stage A	-21	-0.34
Stage A	-21.2	-0.37

6.1.4. Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: Stage A

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	0	0	0
Stage A	-0.2	0	0
Stage A	-0.2	0	0
Stage A	-0.4	-0.05	-0.24
Stage A	-0.6	-0.19	-0.68
Stage A	-0.8	-0.45	-1.33
Stage A	-1	-0.89	-2.18
Stage A	-1.2	-1.53	-3.23
Stage A	-1.4	-2.43	-4.49
Stage A	-1.6	-3.62	-5.94
Stage A	-1.8	-5.14	-7.6
Stage A	-2	-7.03	-9.46
Stage A	-2.2	-9.34	-11.53
Stage A	-2.4	-12.1	-13.8
Stage A	-2.6	-15.35	-16.27
Stage A	-2.8	-19.14	-18.94
Stage A	-3	-23.5	-21.81

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-3	-23.5	-24.89
Stage A	-3.2	-28.48	-24.89
Stage A	-3.4	-34.11	-28.17
Stage A	-3.6	-40.45	-31.66
Stage A	-3.8	-47.51	-35.34
Stage A	-4	-55.36	-39.23
Stage A	-4.2	-64.98	-48.1
Stage A	-4.4	-76.12	-55.68
Stage A	-4.6	-88.52	-61.99
Stage A	-4.8	-101.92	-67.03
Stage A	-5	-116.08	-70.78
Stage A	-5.2	-130.73	-73.26
Stage A	-5.4	-145.62	-74.46
Stage A	-5.6	-160.5	-74.38
Stage A	-5.8	-175.1	-73.02
Stage A	-6	-189.18	-70.39
Stage A	-6.2	-202.49	-66.55
Stage A	-6.4	-214.86	-61.89
Stage A	-6.6	-226.34	-57.37
Stage A	-6.8	-237	-53.33
Stage A	-7	-246.95	-49.76
Stage A	-7.2	-256.29	-46.67
Stage A	-7.4	-265.1	-44.06
Stage A	-7.6	-273.48	-41.91
Stage A	-7.8	-281.53	-40.23
Stage A	-8	-289.33	-39.01
Stage A	-8.2	-296.98	-38.25
Stage A	-8.4	-304.57	-37.95
Stage A	-8.6	-312.19	-38.1
Stage A	-8.8	-319.93	-38.69
Stage A	-9	-327.87	-39.74
Stage A	-9.2	-336.12	-41.24
Stage A	-9.4	-344.76	-43.2
Stage A	-9.6	-353.88	-45.6
Stage A	-9.8	-363.57	-48.46
Stage A	-10	-373.92	-51.75
Stage A	-10.2	-385.02	-55.48
Stage A	-10.4	-396.95	-59.65
Stage A	-10.6	-409.8	-64.24
Stage A	-10.8	-423.65	-69.25
Stage A	-11	-438.58	-74.68
Stage A	-11.2	-454.69	-80.51
Stage A	-11.4	-472.04	-86.76
Stage A	-11.6	-490.72	-93.4
Stage A	-11.8	-510.8	-100.43
Stage A	-12	-532.38	-107.86

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-12.2	-555.51	-115.66
Stage A	-12.4	-576.5	-104.99
Stage A	-12.6	-595.56	-95.27
Stage A	-12.8	-612.85	-86.48
Stage A	-13	-628.57	-78.59
Stage A	-13.2	-642.89	-71.59
Stage A	-13.4	-655.98	-65.44
Stage A	-13.6	-668	-60.12
Stage A	-13.8	-679.12	-55.61
Stage A	-14	-689.5	-51.88
Stage A	-14.2	-699.28	-48.9
Stage A	-14.4	-705.35	-30.32
Stage A	-14.6	-707.87	-12.61
Stage A	-14.8	-707.01	4.27
Stage A	-15	-702.95	20.33
Stage A	-15.2	-695.82	35.63
Stage A	-15.4	-685.78	50.19
Stage A	-15.6	-672.97	64.06
Stage A	-15.8	-657.52	77.27
Stage A	-16	-639.55	89.84
Stage A	-16.2	-619.19	101.82
Stage A	-16.4	-596.54	113.24
Stage A	-16.6	-571.71	124.12
Stage A	-16.8	-544.81	134.51
Stage A	-17	-515.93	144.43
Stage A	-17.2	-485.2	153.66
Stage A	-17.4	-453.03	160.84
Stage A	-17.6	-419.81	166.09
Stage A	-17.8	-385.91	169.52
Stage A	-18	-351.66	171.23
Stage A	-18.2	-317.39	171.34
Stage A	-18.4	-283.41	169.92
Stage A	-18.6	-250.05	166.78
Stage A	-18.8	-217.69	161.8
Stage A	-19	-186.68	155.08
Stage A	-19.2	-157.3	146.86
Stage A	-19.4	-129.82	137.43
Stage A	-19.6	-104.46	126.82
Stage A	-19.8	-81.41	115.23
Stage A	-20	-60.87	102.72
Stage A	-20.2	-43	89.32
Stage A	-20.4	-28	75.03
Stage A	-20.6	-16.02	59.86
Stage A	-20.8	-7.25	43.85
Stage A	-21	-1.86	26.99
Stage A	-21.2	0	9.28

6.1.5. Tabella Spostamento SLE (Rara/Frequente/Quasi Permanente) - LEFT Stage: Sisma

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Sisma	0	20.13
Sisma	-0.2	19.83
Sisma	-0.4	19.54
Sisma	-0.6	19.24
Sisma	-0.8	18.94
Sisma	-1	18.65
Sisma	-1.2	18.35
Sisma	-1.4	18.06
Sisma	-1.6	17.76
Sisma	-1.8	17.46
Sisma	-2	17.17
Sisma	-2.2	16.87
Sisma	-2.4	16.58
Sisma	-2.6	16.28
Sisma	-2.8	15.99
Sisma	-3	15.69
Sisma	-3.2	15.4
Sisma	-3.4	15.1
Sisma	-3.6	14.81
Sisma	-3.8	14.52
Sisma	-4	14.22
Sisma	-4.2	13.93
Sisma	-4.4	13.64
Sisma	-4.6	13.34
Sisma	-4.8	13.05
Sisma	-5	12.76
Sisma	-5.2	12.47
Sisma	-5.4	12.19
Sisma	-5.6	11.9
Sisma	-5.8	11.61
Sisma	-6	11.33
Sisma	-6.2	11.05
Sisma	-6.4	10.77
Sisma	-6.6	10.49
Sisma	-6.8	10.21
Sisma	-7	9.93
Sisma	-7.2	9.66
Sisma	-7.4	9.39
Sisma	-7.6	9.12
Sisma	-7.8	8.85
Sisma	-8	8.59
Sisma	-8.2	8.33
Sisma	-8.4	8.07
Sisma	-8.6	7.81
Sisma	-8.8	7.55
Sisma	-9	7.3
Sisma	-9.2	7.05
Sisma	-9.4	6.81
Sisma	-9.6	6.56
Sisma	-9.8	6.32
Sisma	-10	6.08
Sisma	-10.2	5.85
Sisma	-10.4	5.62
Sisma	-10.6	5.39
Sisma	-10.8	5.16
Sisma	-11	4.94
Sisma	-11.2	4.72
Sisma	-11.4	4.51
Sisma	-11.6	4.3
Sisma	-11.8	4.09
Sisma	-12	3.89
Sisma	-12.2	3.69
Sisma	-12.4	3.5
Sisma	-12.6	3.31
Sisma	-12.8	3.13
Sisma	-13	2.95
Sisma	-13.2	2.78

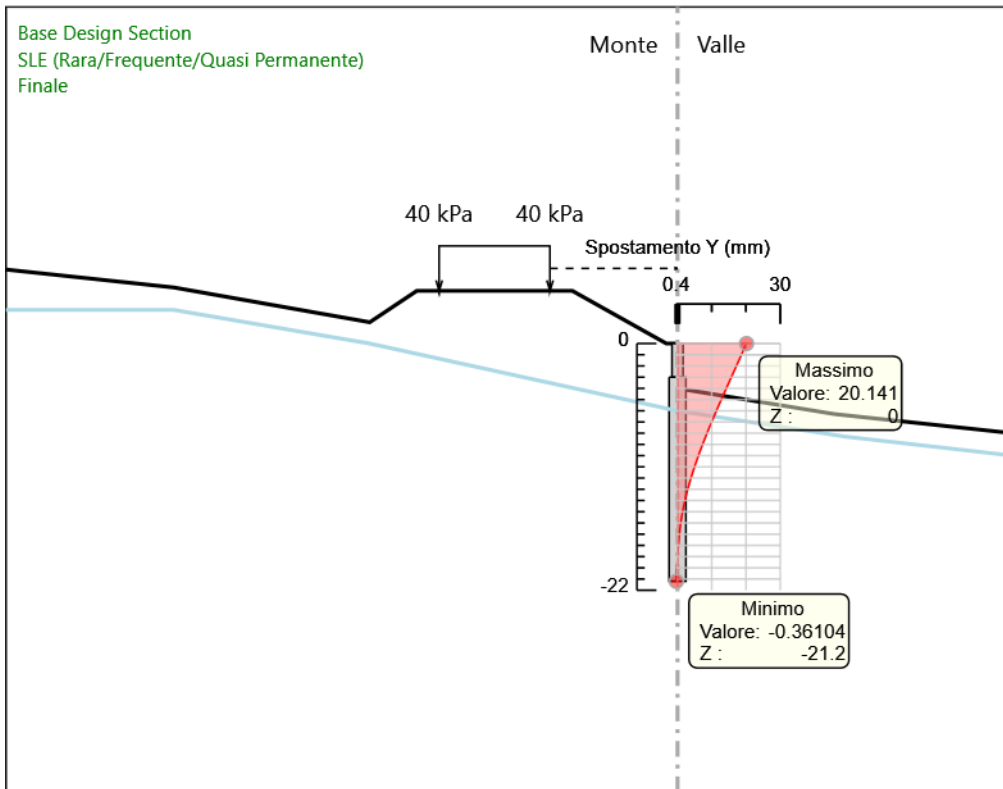
Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Tipo Risultato: Spostamento		Muro: LEFT
Stage	Z (m)	Spostamento orizzontale (mm)
Sisma	-13.4	2.61
Sisma	-13.6	2.44
Sisma	-13.8	2.29
Sisma	-14	2.14
Sisma	-14.2	1.99
Sisma	-14.4	1.85
Sisma	-14.6	1.71
Sisma	-14.8	1.59
Sisma	-15	1.46
Sisma	-15.2	1.35
Sisma	-15.4	1.23
Sisma	-15.6	1.13
Sisma	-15.8	1.03
Sisma	-16	0.93
Sisma	-16.2	0.84
Sisma	-16.4	0.76
Sisma	-16.6	0.68
Sisma	-16.8	0.6
Sisma	-17	0.53
Sisma	-17.2	0.47
Sisma	-17.4	0.4
Sisma	-17.6	0.35
Sisma	-17.8	0.29
Sisma	-18	0.24
Sisma	-18.2	0.19
Sisma	-18.4	0.14
Sisma	-18.6	0.1
Sisma	-18.8	0.06
Sisma	-19	0.02
Sisma	-19.2	-0.02
Sisma	-19.4	-0.06
Sisma	-19.6	-0.1
Sisma	-19.8	-0.13
Sisma	-20	-0.17
Sisma	-20.2	-0.2
Sisma	-20.4	-0.24
Sisma	-20.6	-0.27
Sisma	-20.8	-0.3
Sisma	-21	-0.34
Sisma	-21.2	-0.37

6.1.6. Tabella Risultati Paratia SLE (Rara/Frequente/Quasi Permanente) - Left Wall - Stage: Sisma

Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	0	0	0
Sisma	-0.2	0	0
Sisma	-0.2	0	0
Sisma	-0.4	-0.05	-0.24
Sisma	-0.6	-0.19	-0.68
Sisma	-0.8	-0.45	-1.33
Sisma	-1	-0.89	-2.18
Sisma	-1.2	-1.53	-3.23
Sisma	-1.4	-2.43	-4.49
Sisma	-1.6	-3.62	-5.94
Sisma	-1.8	-5.14	-7.6
Sisma	-2	-7.03	-9.46
Sisma	-2.2	-9.34	-11.53
Sisma	-2.4	-12.1	-13.8
Sisma	-2.6	-15.35	-16.27
Sisma	-2.8	-19.14	-18.94
Sisma	-3	-23.5	-21.81
Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-3	-23.5	-24.89
Sisma	-3.2	-28.48	-24.89
Sisma	-3.4	-34.11	-28.17
Sisma	-3.6	-40.45	-31.66
Sisma	-3.8	-47.51	-35.34
Sisma	-4	-55.36	-39.23
Sisma	-4.2	-64.98	-48.1
Sisma	-4.4	-76.12	-55.68
Sisma	-4.6	-88.52	-61.99
Sisma	-4.8	-101.92	-67.03
Sisma	-5	-116.08	-70.78
Sisma	-5.2	-130.73	-73.26
Sisma	-5.4	-145.62	-74.46
Sisma	-5.6	-160.5	-74.38
Sisma	-5.8	-175.1	-73.02
Sisma	-6	-189.18	-70.39
Sisma	-6.2	-202.49	-66.55
Sisma	-6.4	-214.86	-61.89
Sisma	-6.6	-226.34	-57.37
Sisma	-6.8	-237	-53.33
Sisma	-7	-246.95	-49.76
Sisma	-7.2	-256.29	-46.67
Sisma	-7.4	-265.1	-44.06
Sisma	-7.6	-273.48	-41.91
Sisma	-7.8	-281.53	-40.23
Sisma	-8	-289.33	-39.01
Sisma	-8.2	-296.98	-38.25
Sisma	-8.4	-304.57	-37.95
Sisma	-8.6	-312.19	-38.1
Sisma	-8.8	-319.93	-38.69
Sisma	-9	-327.87	-39.74
Sisma	-9.2	-336.12	-41.24
Sisma	-9.4	-344.76	-43.2
Sisma	-9.6	-353.88	-45.6
Sisma	-9.8	-363.57	-48.46
Sisma	-10	-373.92	-51.75
Sisma	-10.2	-385.02	-55.48
Sisma	-10.4	-396.95	-59.65
Sisma	-10.6	-409.8	-64.24
Sisma	-10.8	-423.65	-69.25
Sisma	-11	-438.58	-74.68
Sisma	-11.2	-454.69	-80.51
Sisma	-11.4	-472.04	-86.76
Sisma	-11.6	-490.72	-93.4
Sisma	-11.8	-510.8	-100.43
Sisma	-12	-532.38	-107.86
Sisma	-12.2	-555.51	-115.66
Sisma	-12.4	-576.5	-104.99

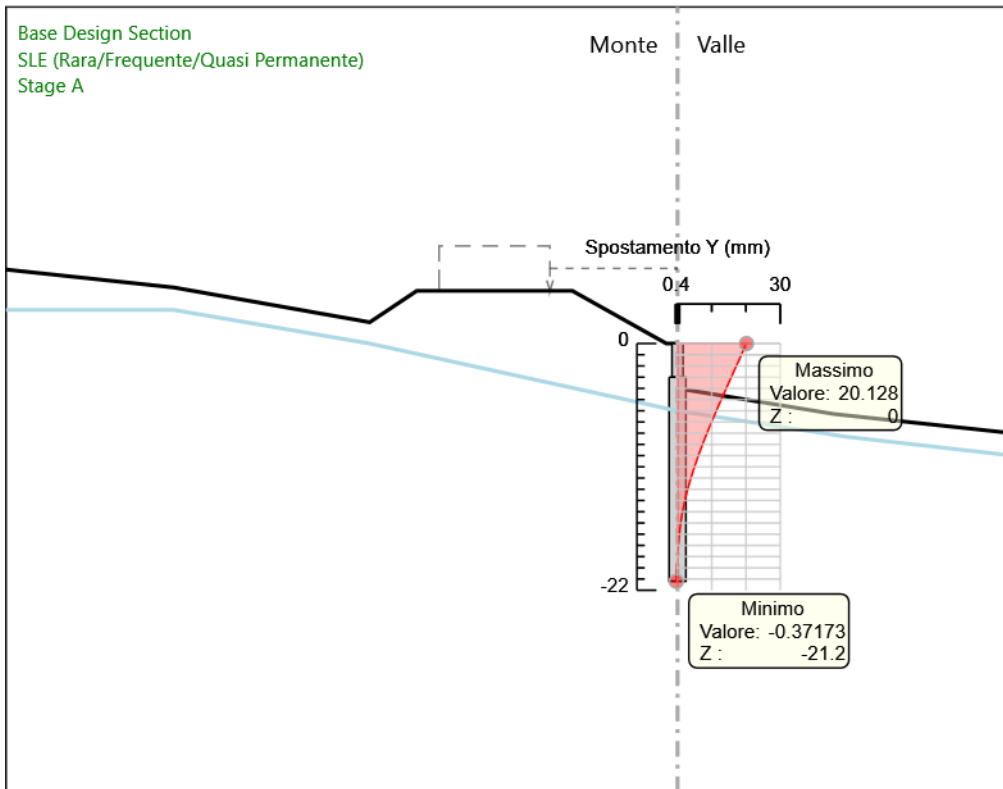
Design Assumption: SLE (Rara/Frequente/Quasi Permanente) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-12.6	-595.56	-95.27
Sisma	-12.8	-612.85	-86.48
Sisma	-13	-628.57	-78.59
Sisma	-13.2	-642.89	-71.59
Sisma	-13.4	-655.98	-65.44
Sisma	-13.6	-668	-60.12
Sisma	-13.8	-679.12	-55.61
Sisma	-14	-689.5	-51.88
Sisma	-14.2	-699.28	-48.9
Sisma	-14.4	-705.35	-30.32
Sisma	-14.6	-707.87	-12.61
Sisma	-14.8	-707.01	4.27
Sisma	-15	-702.95	20.33
Sisma	-15.2	-695.82	35.63
Sisma	-15.4	-685.78	50.19
Sisma	-15.6	-672.97	64.06
Sisma	-15.8	-657.52	77.27
Sisma	-16	-639.55	89.84
Sisma	-16.2	-619.19	101.82
Sisma	-16.4	-596.54	113.24
Sisma	-16.6	-571.71	124.12
Sisma	-16.8	-544.81	134.51
Sisma	-17	-515.93	144.43
Sisma	-17.2	-485.2	153.66
Sisma	-17.4	-453.03	160.84
Sisma	-17.6	-419.81	166.09
Sisma	-17.8	-385.91	169.52
Sisma	-18	-351.66	171.23
Sisma	-18.2	-317.39	171.34
Sisma	-18.4	-283.41	169.92
Sisma	-18.6	-250.05	166.78
Sisma	-18.8	-217.69	161.8
Sisma	-19	-186.68	155.08
Sisma	-19.2	-157.3	146.86
Sisma	-19.4	-129.82	137.43
Sisma	-19.6	-104.46	126.82
Sisma	-19.8	-81.41	115.23
Sisma	-20	-60.87	102.72
Sisma	-20.2	-43	89.32
Sisma	-20.4	-28	75.03
Sisma	-20.6	-16.02	59.86
Sisma	-20.8	-7.25	43.85
Sisma	-21	-1.86	26.99
Sisma	-21.2	0	9.28

6.1.7. Grafico Spostamento SLE (Rara/Frequente/Quasi Permanente) - Stage: Finale



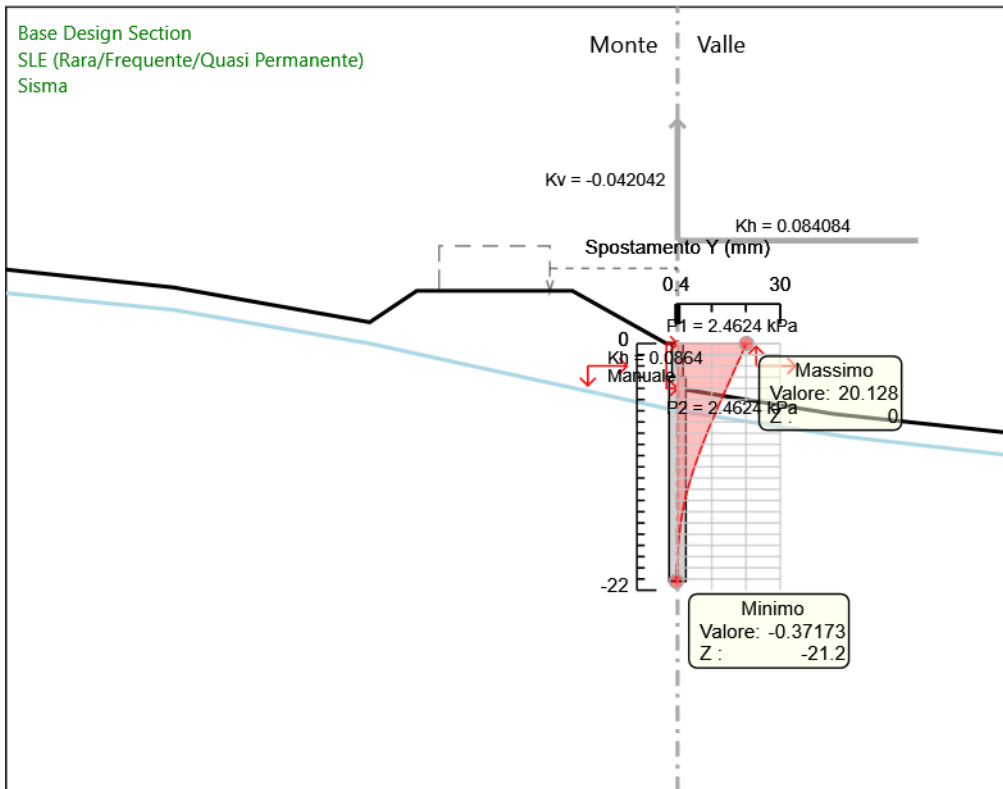
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Finale
Spostamento orizzontale

6.1.8. Grafico Spostamento SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage A



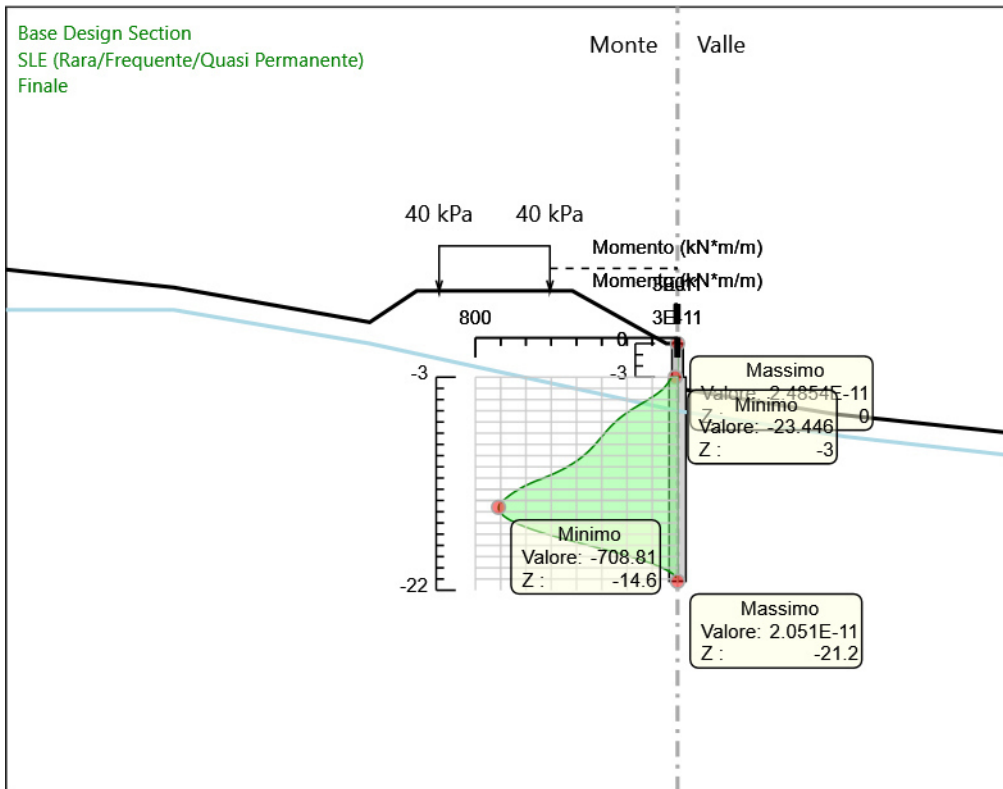
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Stage A
Spostamento orizzontale

6.1.9. Grafico Spostamento SLE (Rara/Frequente/Quasi Permanente) - Stage: Sisma



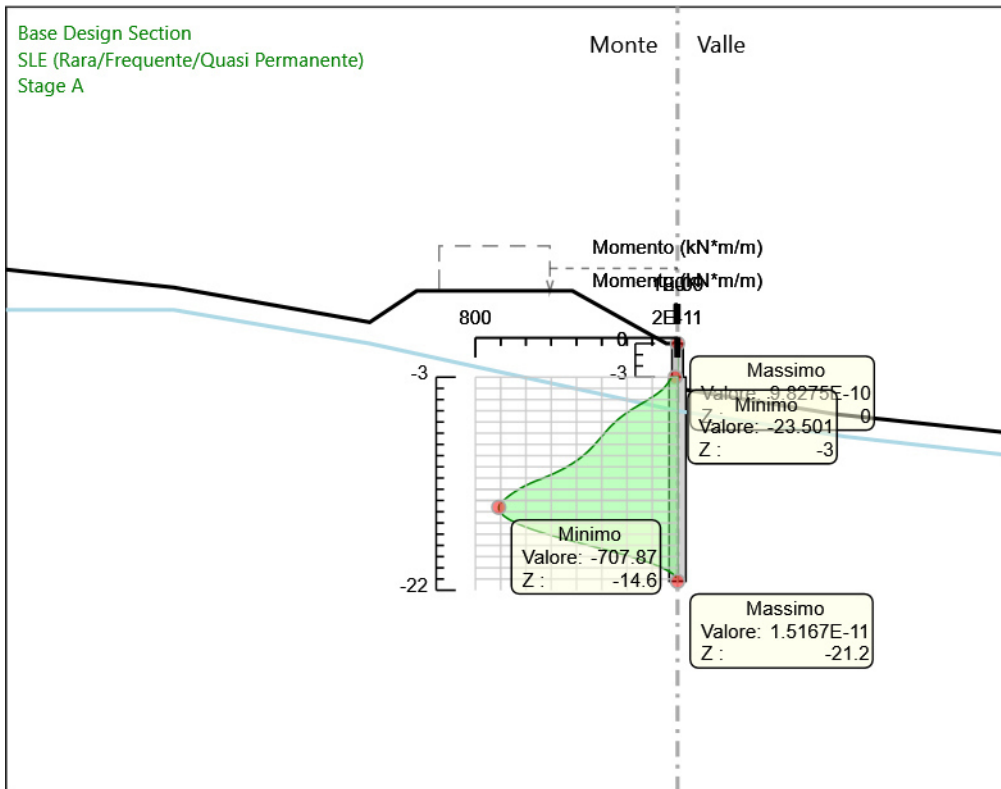
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Sisma
Spostamento orizzontale

6.1.10. Grafico Risultati Momento SLE (Rara/Frequente/Quasi Permanente) - Stage: Finale



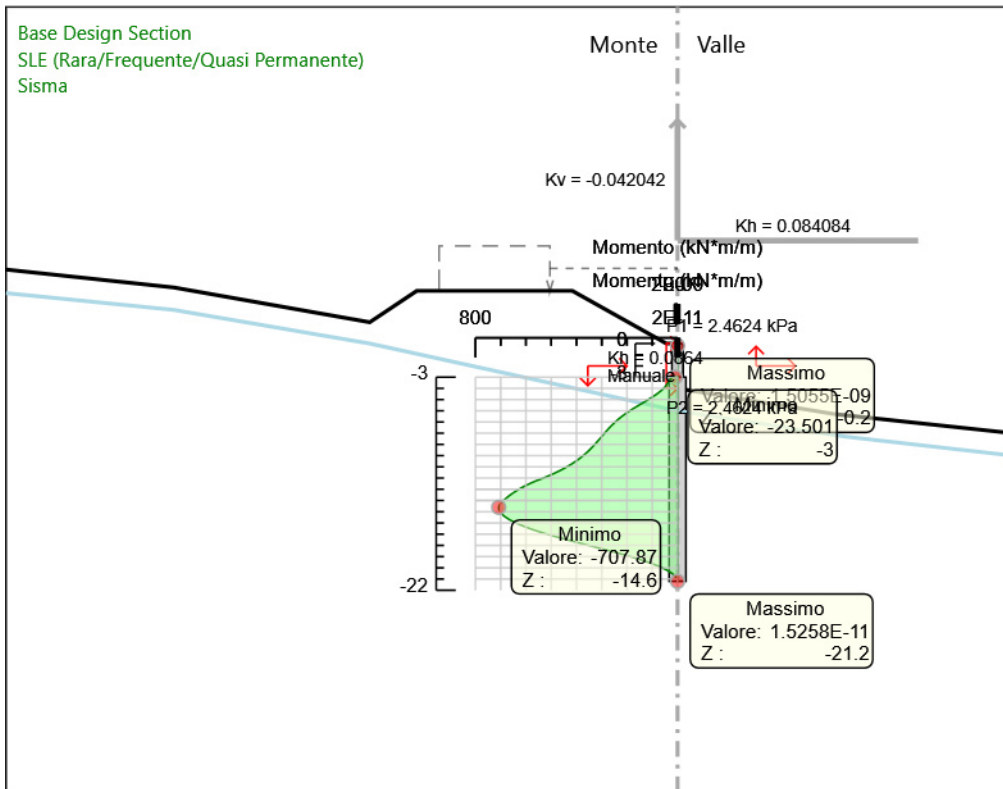
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Finale
Momento

6.1.11. Grafico Risultati Momento SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage A



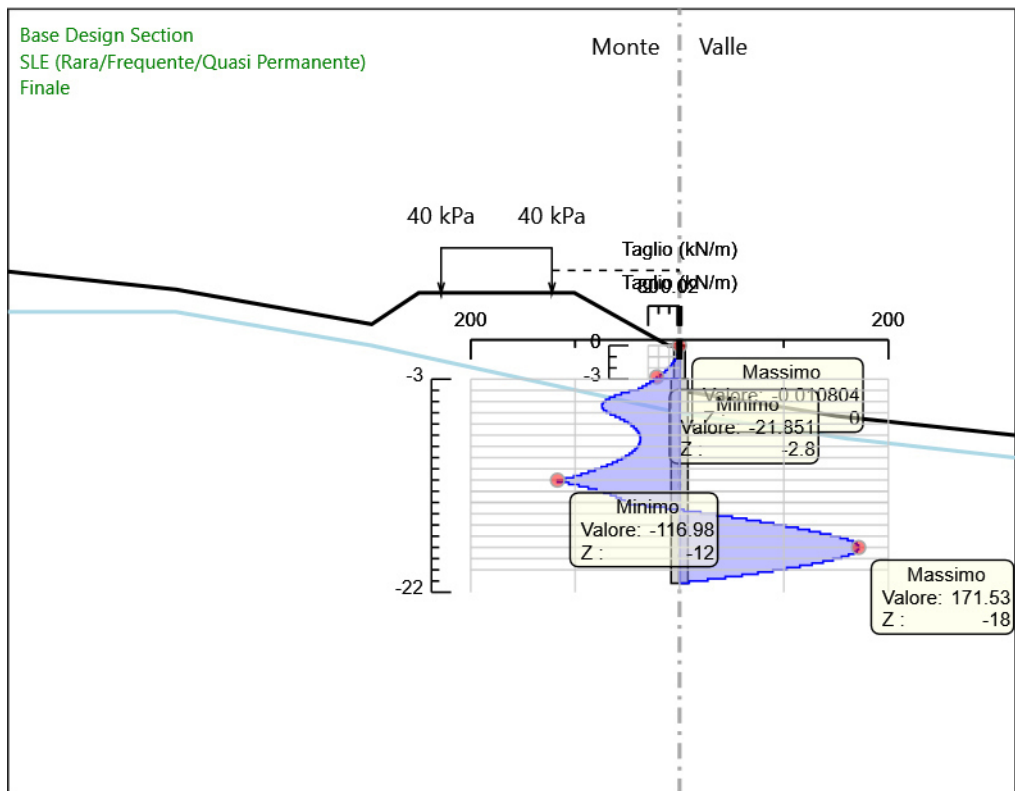
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Stage A
Momento

6.1.12. Grafico Risultati Momento SLE (Rara/Frequente/Quasi Permanente) - Stage: Sisma



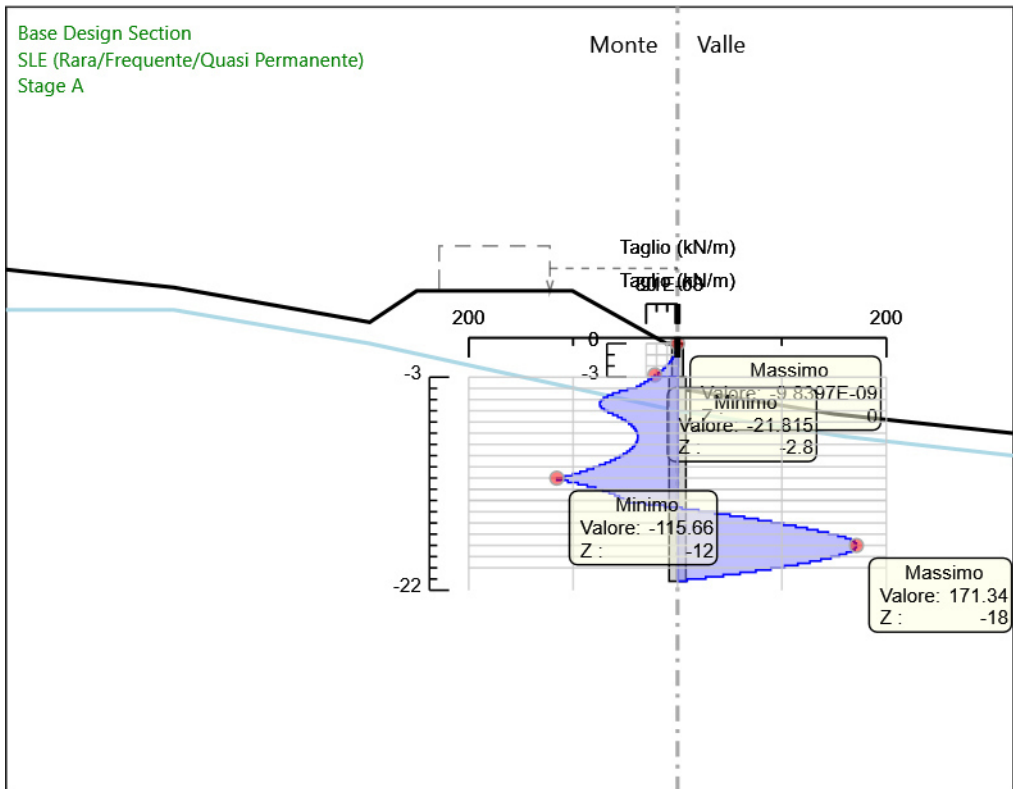
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Sisma
Momento

6.1.13. Grafico Risultati Taglio SLE (Rara/Frequente/Quasi Permanente) - Stage: Finale



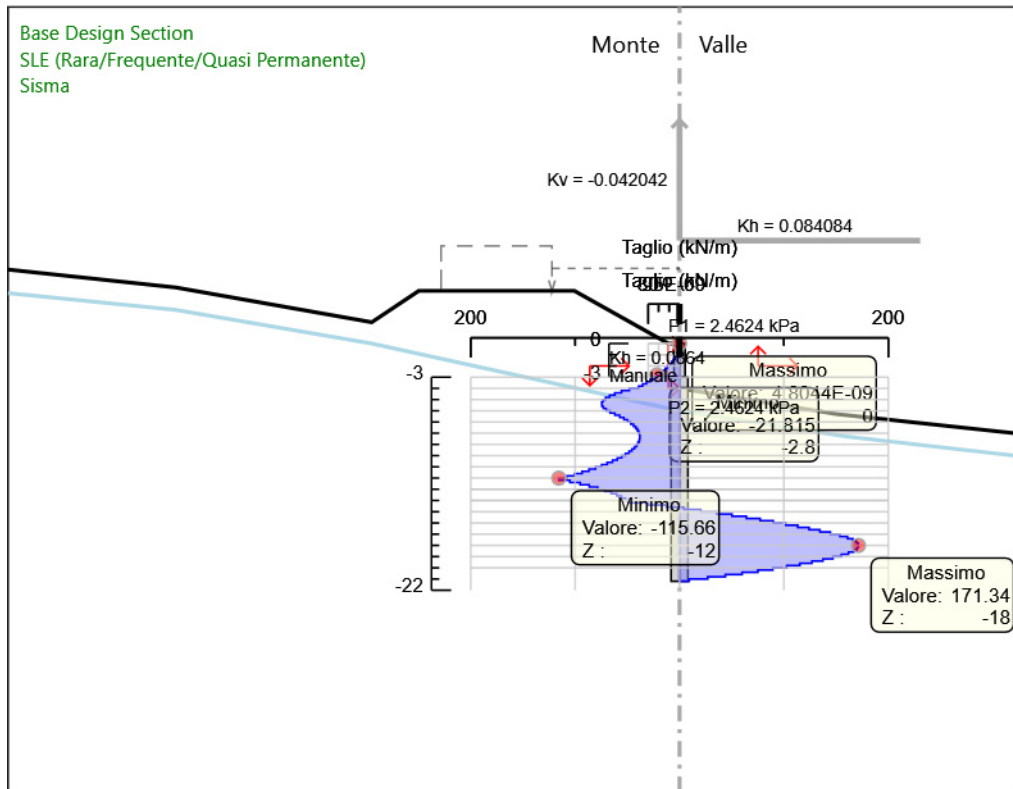
Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Finale
Taglio

6.1.14. Grafico Risultati Taglio SLE (Rara/Frequente/Quasi Permanente) - Stage: Stage A



Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Stage A
Taglio

6.1.15. Grafico Risultati Taglio SLE (Rara/Frequente/Quasi Permanente) - Stage: Sisma



Design Assumption: SLE (Rara/Frequente/Quasi Permanente)
Stage: Sisma
Taglio

6.2. Risultati A1+M1+R1 (R3 per tiranti)

6.2.1. Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: Finale

Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia Muro: LEFT			
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	0	0	-0.02
Finale	-0.2	0	-0.02
Finale	-0.2	0	-0.02
Finale	-0.4	-0.07	-0.32
Finale	-0.6	-0.24	-0.88
Finale	-0.8	-0.59	-1.71
Finale	-1	-1.15	-2.81
Finale	-1.2	-1.98	-4.18
Finale	-1.4	-3.15	-5.81
Finale	-1.6	-4.69	-7.72
Finale	-1.8	-6.67	-9.88
Finale	-2	-9.13	-12.32
Finale	-2.2	-12.14	-15.03
Finale	-2.4	-15.74	-18
Finale	-2.6	-19.98	-21.24
Finale	-2.8	-24.94	-24.75
Finale	-3	-30.64	-28.53

Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia Muro: LEFT			
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-3	-30.64	-32.58
Finale	-3.2	-37.16	-32.58
Finale	-3.4	-44.54	-36.89
Finale	-3.6	-52.83	-41.48
Finale	-3.8	-62.1	-46.33
Finale	-4	-72.39	-51.45
Finale	-4.2	-84.98	-62.94
Finale	-4.4	-99.53	-72.78
Finale	-4.6	-115.73	-80.97
Finale	-4.8	-133.23	-87.5
Finale	-5	-151.7	-92.37
Finale	-5.2	-170.82	-95.59
Finale	-5.4	-190.25	-97.15
Finale	-5.6	-209.66	-97.06
Finale	-5.8	-228.72	-95.31
Finale	-6	-247.1	-91.9
Finale	-6.2	-264.49	-86.94
Finale	-6.4	-280.67	-80.91
Finale	-6.6	-295.64	-74.88
Finale	-6.8	-309.54	-69.47
Finale	-7	-322.48	-64.7
Finale	-7.2	-334.59	-60.55
Finale	-7.4	-345.99	-57.02
Finale	-7.6	-356.81	-54.1
Finale	-7.8	-367.17	-51.8
Finale	-8	-377.19	-50.11
Finale	-8.2	-387	-49.02
Finale	-8.4	-396.7	-48.53
Finale	-8.6	-406.43	-48.64
Finale	-8.8	-416.29	-49.33
Finale	-9	-426.42	-50.62
Finale	-9.2	-436.92	-52.52
Finale	-9.4	-447.93	-55.04
Finale	-9.6	-459.57	-58.17
Finale	-9.8	-471.95	-61.91
Finale	-10	-485.2	-66.25
Finale	-10.2	-499.43	-71.17
Finale	-10.4	-514.77	-76.69
Finale	-10.6	-531.32	-82.78
Finale	-10.8	-549.21	-89.44
Finale	-11	-568.55	-96.67
Finale	-11.2	-589.44	-104.45
Finale	-11.4	-611.99	-112.78
Finale	-11.6	-636.32	-121.66
Finale	-11.8	-662.54	-131.07

Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-12	-690.74	-141
Finale	-12.2	-721.03	-151.45
Finale	-12.4	-748.51	-137.39
Finale	-12.6	-773.42	-124.6
Finale	-12.8	-796.03	-113.04
Finale	-13	-816.57	-102.68
Finale	-13.2	-835.26	-93.49
Finale	-13.4	-852.35	-85.44
Finale	-13.6	-868.05	-78.5
Finale	-13.8	-882.58	-72.62
Finale	-14	-896.13	-67.79
Finale	-14.2	-908.92	-63.95
Finale	-14.4	-916.85	-39.65
Finale	-14.6	-920.15	-16.5
Finale	-14.8	-919.05	5.53
Finale	-15	-913.75	26.49
Finale	-15.2	-904.47	46.43
Finale	-15.4	-891.39	65.39
Finale	-15.6	-874.7	83.43
Finale	-15.8	-854.58	100.59
Finale	-16	-831.2	116.9
Finale	-16.2	-804.72	132.43
Finale	-16.4	-775.28	147.2
Finale	-16.6	-743.02	161.27
Finale	-16.8	-708.09	174.67
Finale	-17	-670.6	187.46
Finale	-17.2	-630.7	199.51
Finale	-17.4	-588.92	208.89
Finale	-17.6	-545.77	215.75
Finale	-17.8	-501.72	220.24
Finale	-18	-457.22	222.51
Finale	-18.2	-412.68	222.68
Finale	-18.4	-368.51	220.87
Finale	-18.6	-325.14	216.84
Finale	-18.8	-283.05	210.42
Finale	-19	-242.71	201.73
Finale	-19.2	-204.51	190.98
Finale	-19.4	-168.77	178.69
Finale	-19.6	-135.8	164.89
Finale	-19.8	-105.83	149.81
Finale	-20	-79.12	133.55
Finale	-20.2	-55.9	116.11
Finale	-20.4	-36.4	97.52
Finale	-20.6	-20.83	77.82
Finale	-20.8	-9.43	57.01
Finale	-21	-2.41	35.09
Finale	-21.2	0	12.06

6.2.2. Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: Stage A

Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	0	0	0
Stage A	-0.2	0	0
Stage A	-0.2	0	0
Stage A	-0.4	-0.06	-0.32
Stage A	-0.6	-0.25	-0.91
Stage A	-0.8	-0.6	-1.75
Stage A	-1	-1.17	-2.86
Stage A	-1.2	-2.02	-4.24
Stage A	-1.4	-3.19	-5.88
Stage A	-1.6	-4.75	-7.78
Stage A	-1.8	-6.74	-9.95
Stage A	-2	-9.21	-12.38
Stage A	-2.2	-12.23	-15.07
Stage A	-2.4	-15.83	-18.03
Stage A	-2.6	-20.08	-21.25
Stage A	-2.8	-25.03	-24.73
Stage A	-3	-30.72	-28.48

Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-3	-30.72	-32.49
Stage A	-3.2	-37.22	-32.49
Stage A	-3.4	-44.57	-36.76
Stage A	-3.6	-52.83	-41.3
Stage A	-3.8	-62.05	-46.1
Stage A	-4	-72.28	-51.16
Stage A	-4.2	-84.83	-62.75
Stage A	-4.4	-99.37	-72.67
Stage A	-4.6	-115.55	-80.93
Stage A	-4.8	-133.06	-87.54
Stage A	-5	-151.56	-92.48
Stage A	-5.2	-170.71	-95.77
Stage A	-5.4	-190.19	-97.4
Stage A	-5.6	-209.67	-97.36
Stage A	-5.8	-228.8	-95.67
Stage A	-6	-247.26	-92.32
Stage A	-6.2	-264.74	-87.4
Stage A	-6.4	-281.02	-81.41
Stage A	-6.6	-296.11	-75.42
Stage A	-6.8	-310.12	-70.05
Stage A	-7	-323.18	-65.31
Stage A	-7.2	-335.42	-61.18
Stage A	-7.4	-346.95	-57.67
Stage A	-7.6	-357.91	-54.78
Stage A	-7.8	-368.41	-52.49
Stage A	-8	-378.57	-50.81
Stage A	-8.2	-388.51	-49.73
Stage A	-8.4	-398.36	-49.24
Stage A	-8.6	-408.23	-49.35
Stage A	-8.8	-418.24	-50.04
Stage A	-9	-428.5	-51.31
Stage A	-9.2	-439.14	-53.19
Stage A	-9.4	-450.27	-55.67
Stage A	-9.6	-462.02	-58.73
Stage A	-9.8	-474.5	-62.38
Stage A	-10	-487.82	-66.61
Stage A	-10.2	-502.1	-71.42
Stage A	-10.4	-517.46	-76.79
Stage A	-10.6	-534	-82.72
Stage A	-10.8	-551.84	-89.2
Stage A	-11	-571.09	-96.23
Stage A	-11.2	-591.85	-103.8
Stage A	-11.4	-614.23	-111.9
Stage A	-11.6	-638.34	-120.53
Stage A	-11.8	-664.27	-129.67
Stage A	-12	-692.14	-139.32
Stage A	-12.2	-722.03	-149.47
Stage A	-12.4	-749.16	-135.64

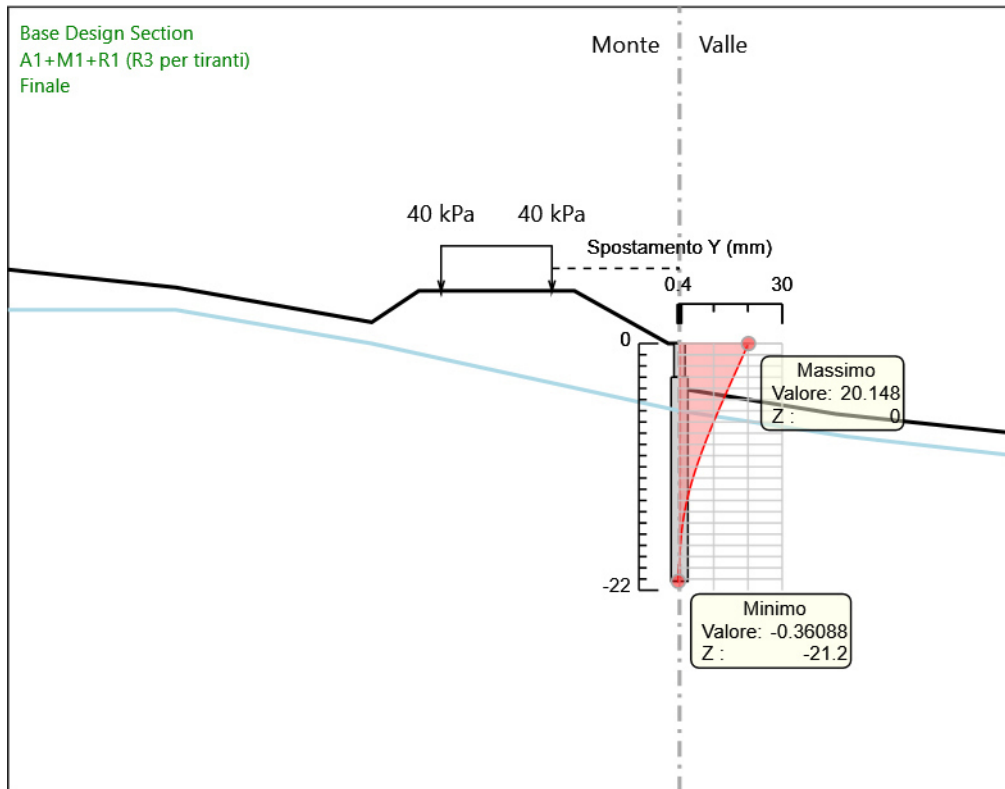
Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-12.6	-773.77	-123.05
Stage A	-12.8	-796.1	-111.66
Stage A	-13	-816.39	-101.46
Stage A	-13.2	-834.87	-92.41
Stage A	-13.4	-851.77	-84.47
Stage A	-13.6	-867.29	-77.61
Stage A	-13.8	-881.65	-71.8
Stage A	-14	-895.05	-67.01
Stage A	-14.2	-907.69	-63.2
Stage A	-14.4	-915.51	-39.1
Stage A	-14.6	-918.74	-16.15
Stage A	-14.8	-917.6	5.72
Stage A	-15	-912.29	26.53
Stage A	-15.2	-903.02	46.35
Stage A	-15.4	-889.98	65.21
Stage A	-15.6	-873.35	83.16
Stage A	-15.8	-853.3	100.25
Stage A	-16	-830	116.52
Stage A	-16.2	-803.6	132.01
Stage A	-16.4	-774.24	146.77
Stage A	-16.6	-742.08	160.83
Stage A	-16.8	-707.23	174.25
Stage A	-17	-669.81	187.06
Stage A	-17.2	-629.99	199.13
Stage A	-17.4	-588.28	208.52
Stage A	-17.6	-545.2	215.4
Stage A	-17.8	-501.22	219.92
Stage A	-18	-456.77	222.21
Stage A	-18.2	-412.29	222.4
Stage A	-18.4	-368.17	220.61
Stage A	-18.6	-324.85	216.6
Stage A	-18.8	-282.81	210.2
Stage A	-19	-242.51	201.53
Stage A	-19.2	-204.35	190.8
Stage A	-19.4	-168.64	178.53
Stage A	-19.6	-135.69	164.74
Stage A	-19.8	-105.76	149.69
Stage A	-20	-79.07	133.44
Stage A	-20.2	-55.86	116.02
Stage A	-20.4	-36.37	97.45
Stage A	-20.6	-20.82	77.77
Stage A	-20.8	-9.42	56.97
Stage A	-21	-2.41	35.06
Stage A	-21.2	0	12.06

6.2.3. Tabella Risultati Paratia A1+M1+R1 (R3 per tiranti) - Left Wall - Stage: Sisma

Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	0	0	0
Sisma	-0.2	0	0
Sisma	-0.2	0	0
Sisma	-0.4	-0.06	-0.32
Sisma	-0.6	-0.25	-0.91
Sisma	-0.8	-0.6	-1.75
Sisma	-1	-1.17	-2.86
Sisma	-1.2	-2.02	-4.24
Sisma	-1.4	-3.19	-5.88
Sisma	-1.6	-4.75	-7.78
Sisma	-1.8	-6.74	-9.95
Sisma	-2	-9.21	-12.38
Sisma	-2.2	-12.23	-15.07
Sisma	-2.4	-15.83	-18.03
Sisma	-2.6	-20.08	-21.25
Sisma	-2.8	-25.03	-24.73
Sisma	-3	-30.72	-28.48
Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-3	-30.72	-32.49
Sisma	-3.2	-37.22	-32.49
Sisma	-3.4	-44.57	-36.76
Sisma	-3.6	-52.83	-41.3
Sisma	-3.8	-62.05	-46.1
Sisma	-4	-72.28	-51.16
Sisma	-4.2	-84.83	-62.75
Sisma	-4.4	-99.37	-72.67
Sisma	-4.6	-115.55	-80.93
Sisma	-4.8	-133.06	-87.54
Sisma	-5	-151.56	-92.48
Sisma	-5.2	-170.71	-95.77
Sisma	-5.4	-190.19	-97.4
Sisma	-5.6	-209.67	-97.36
Sisma	-5.8	-228.8	-95.67
Sisma	-6	-247.26	-92.32
Sisma	-6.2	-264.74	-87.4
Sisma	-6.4	-281.02	-81.41
Sisma	-6.6	-296.11	-75.42
Sisma	-6.8	-310.12	-70.05
Sisma	-7	-323.18	-65.31
Sisma	-7.2	-335.42	-61.18
Sisma	-7.4	-346.95	-57.67
Sisma	-7.6	-357.91	-54.78
Sisma	-7.8	-368.41	-52.49
Sisma	-8	-378.57	-50.81
Sisma	-8.2	-388.51	-49.73
Sisma	-8.4	-398.36	-49.24
Sisma	-8.6	-408.23	-49.35
Sisma	-8.8	-418.24	-50.04
Sisma	-9	-428.5	-51.31
Sisma	-9.2	-439.14	-53.19
Sisma	-9.4	-450.27	-55.67
Sisma	-9.6	-462.02	-58.73
Sisma	-9.8	-474.5	-62.38
Sisma	-10	-487.82	-66.61
Sisma	-10.2	-502.1	-71.42
Sisma	-10.4	-517.46	-76.79
Sisma	-10.6	-534	-82.72
Sisma	-10.8	-551.84	-89.2
Sisma	-11	-571.09	-96.23
Sisma	-11.2	-591.85	-103.8
Sisma	-11.4	-614.23	-111.9
Sisma	-11.6	-638.34	-120.53
Sisma	-11.8	-664.27	-129.67
Sisma	-12	-692.14	-139.32
Sisma	-12.2	-722.03	-149.47
Sisma	-12.4	-749.16	-135.64

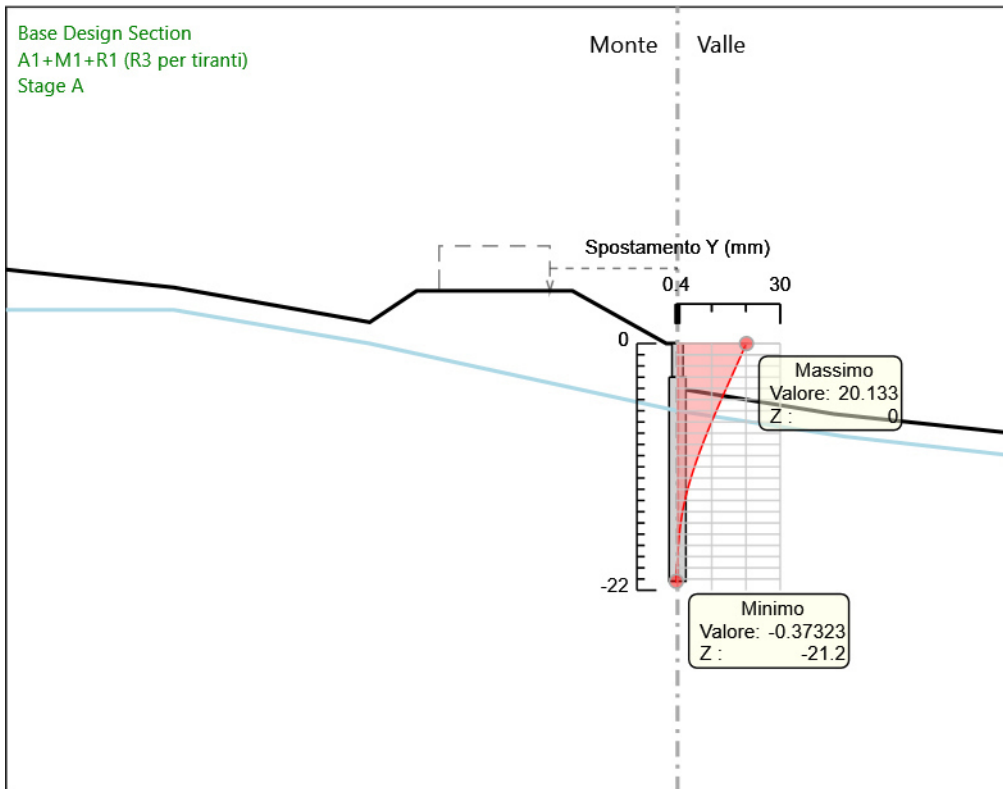
Design Assumption: A1+M1+R1 (R3 per tiranti) Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-12.6	-773.77	-123.05
Sisma	-12.8	-796.1	-111.66
Sisma	-13	-816.39	-101.46
Sisma	-13.2	-834.87	-92.41
Sisma	-13.4	-851.77	-84.47
Sisma	-13.6	-867.29	-77.61
Sisma	-13.8	-881.65	-71.8
Sisma	-14	-895.05	-67.01
Sisma	-14.2	-907.69	-63.2
Sisma	-14.4	-915.51	-39.1
Sisma	-14.6	-918.74	-16.15
Sisma	-14.8	-917.6	5.72
Sisma	-15	-912.29	26.53
Sisma	-15.2	-903.02	46.35
Sisma	-15.4	-889.98	65.21
Sisma	-15.6	-873.35	83.16
Sisma	-15.8	-853.3	100.25
Sisma	-16	-830	116.52
Sisma	-16.2	-803.6	132.01
Sisma	-16.4	-774.24	146.77
Sisma	-16.6	-742.08	160.83
Sisma	-16.8	-707.23	174.25
Sisma	-17	-669.81	187.06
Sisma	-17.2	-629.99	199.13
Sisma	-17.4	-588.28	208.52
Sisma	-17.6	-545.2	215.4
Sisma	-17.8	-501.22	219.92
Sisma	-18	-456.77	222.21
Sisma	-18.2	-412.29	222.4
Sisma	-18.4	-368.17	220.61
Sisma	-18.6	-324.85	216.6
Sisma	-18.8	-282.81	210.2
Sisma	-19	-242.51	201.53
Sisma	-19.2	-204.35	190.8
Sisma	-19.4	-168.64	178.53
Sisma	-19.6	-135.69	164.74
Sisma	-19.8	-105.76	149.69
Sisma	-20	-79.07	133.44
Sisma	-20.2	-55.86	116.02
Sisma	-20.4	-36.37	97.45
Sisma	-20.6	-20.82	77.77
Sisma	-20.8	-9.42	56.97
Sisma	-21	-2.41	35.06
Sisma	-21.2	0	12.06

6.2.4. Grafico Spostamento A1+M1+R1 (R3 per tiranti) - Stage: Finale



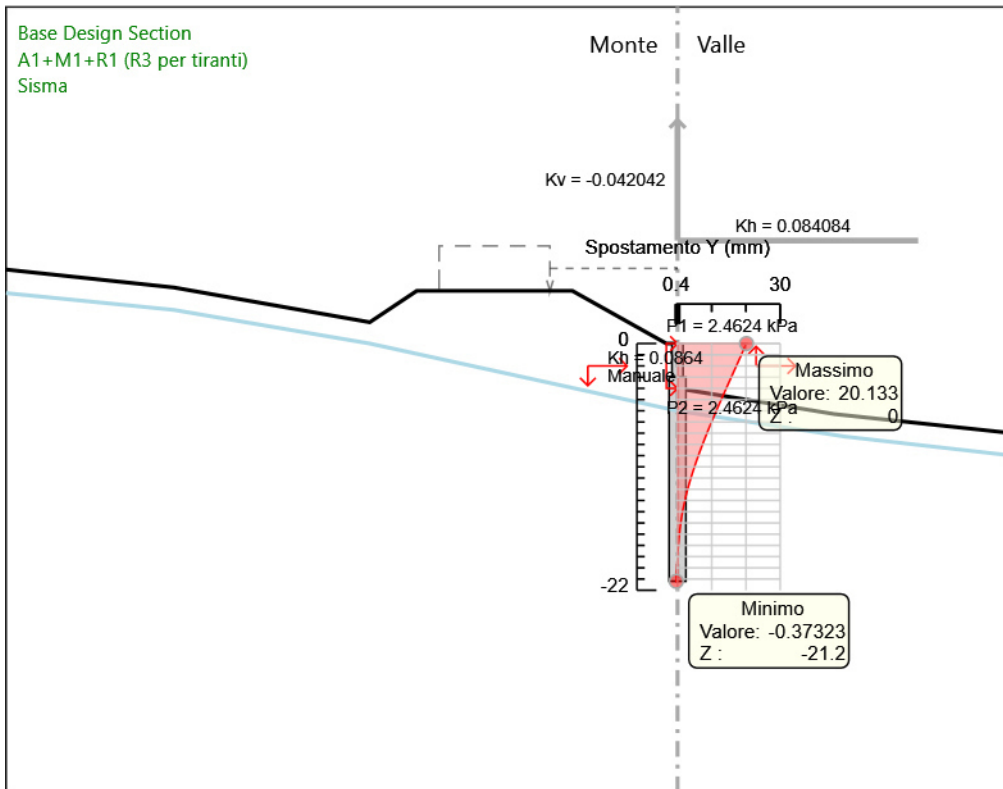
Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Finale
Spostamento orizzontale

6.2.5. Grafico Spostamento A1+M1+R1 (R3 per tiranti) - Stage: Stage A



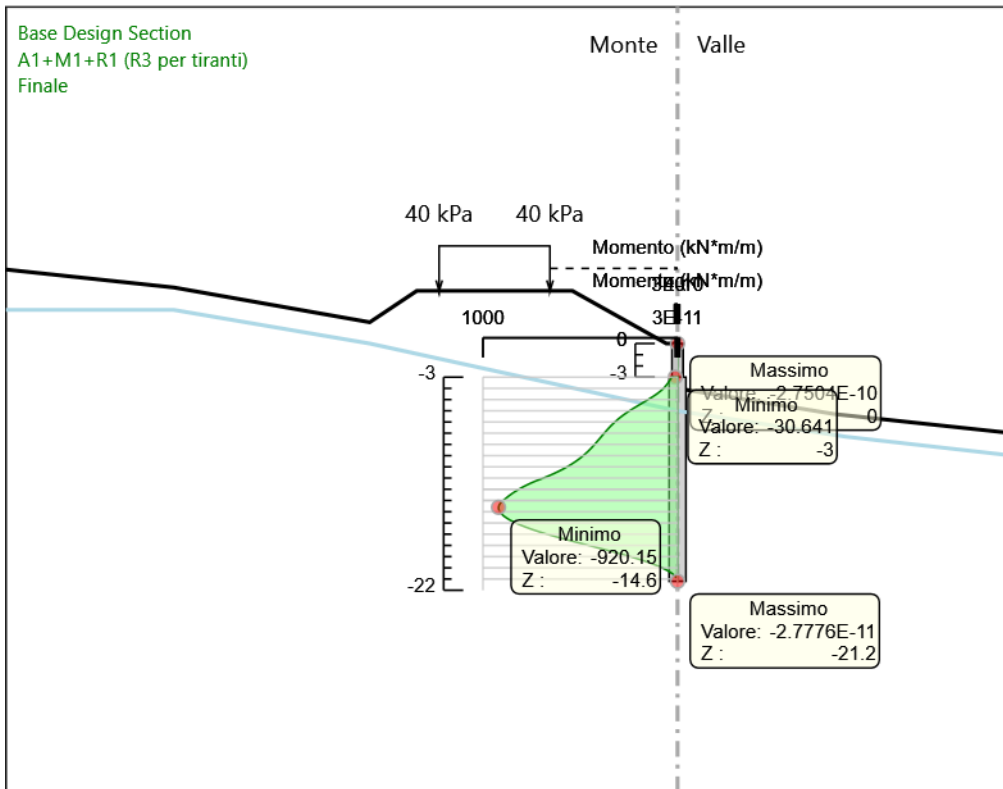
Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Stage A
Spostamento orizzontale

6.2.6. Grafico Spostamento A1+M1+R1 (R3 per tiranti) - Stage: Sisma



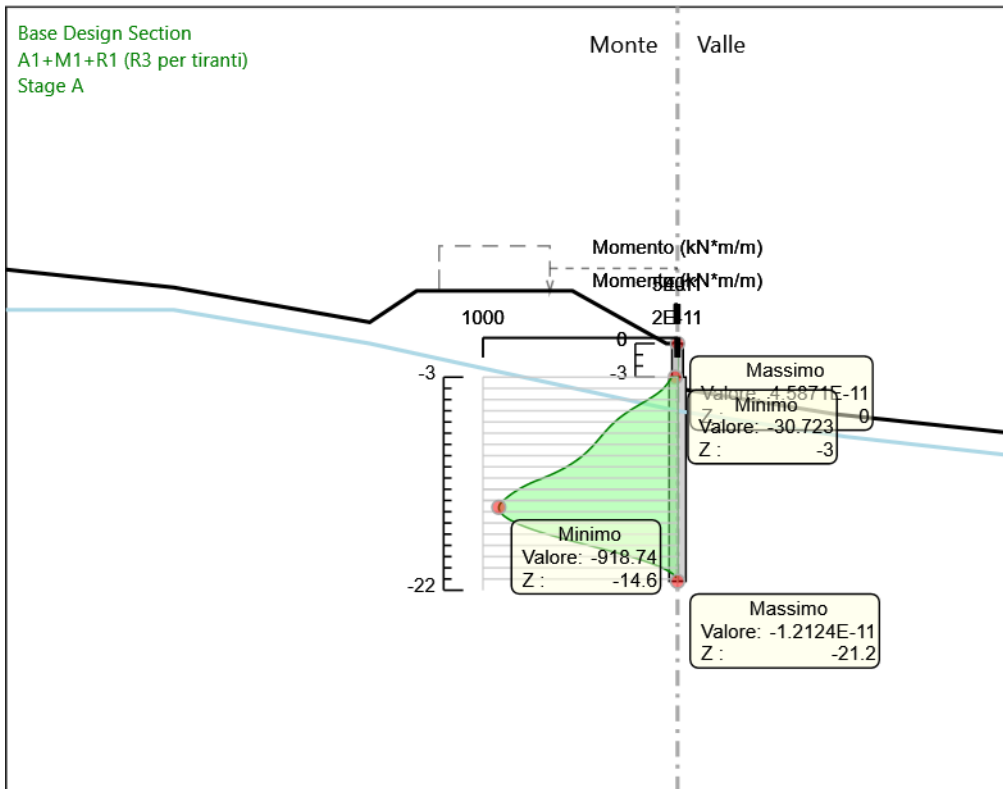
Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Sisma
Spostamento orizzontale

6.2.7. Grafico Risultati Momento A1+M1+R1 (R3 per tiranti) - Stage: Finale



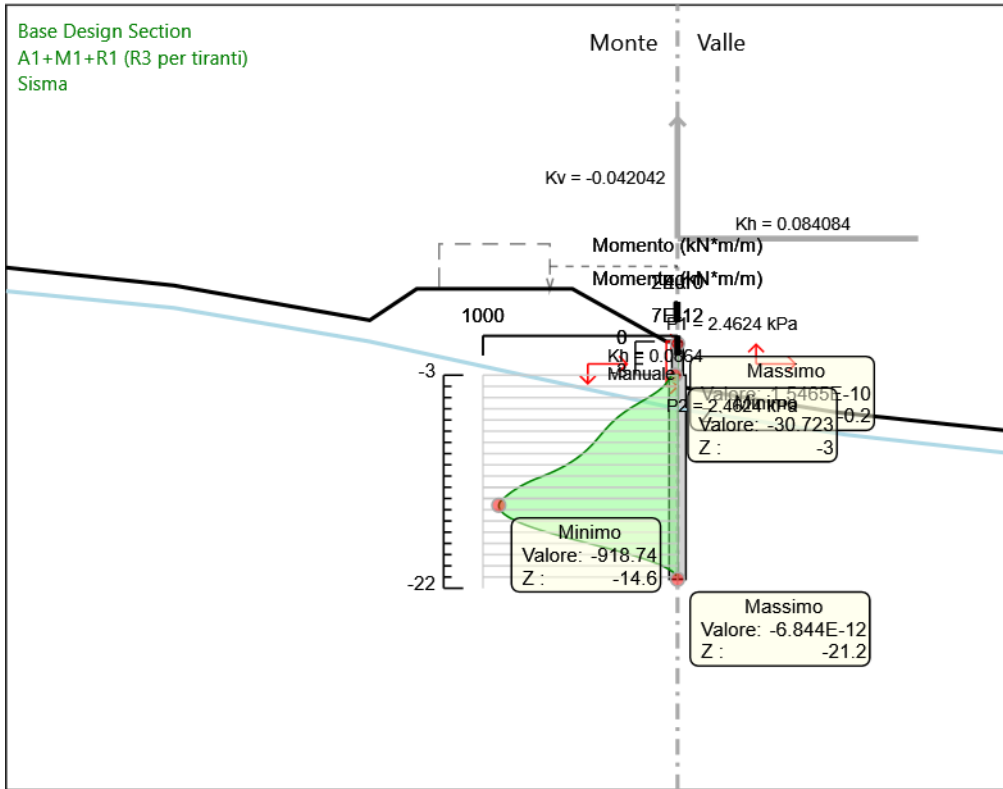
Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Finale
Momento

6.2.8. Grafico Risultati Momento A1+M1+R1 (R3 per tiranti) - Stage: Stage A



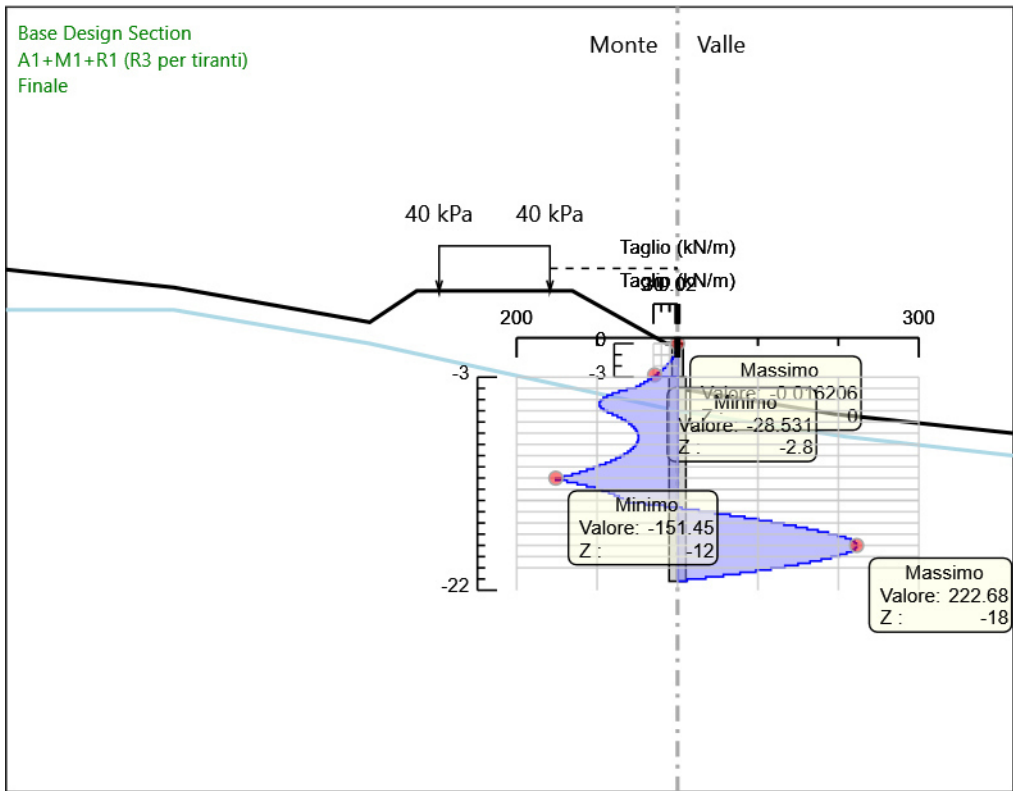
Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Stage A
Momento

6.2.9. Grafico Risultati Momento A1+M1+R1 (R3 per tiranti) - Stage: Sisma



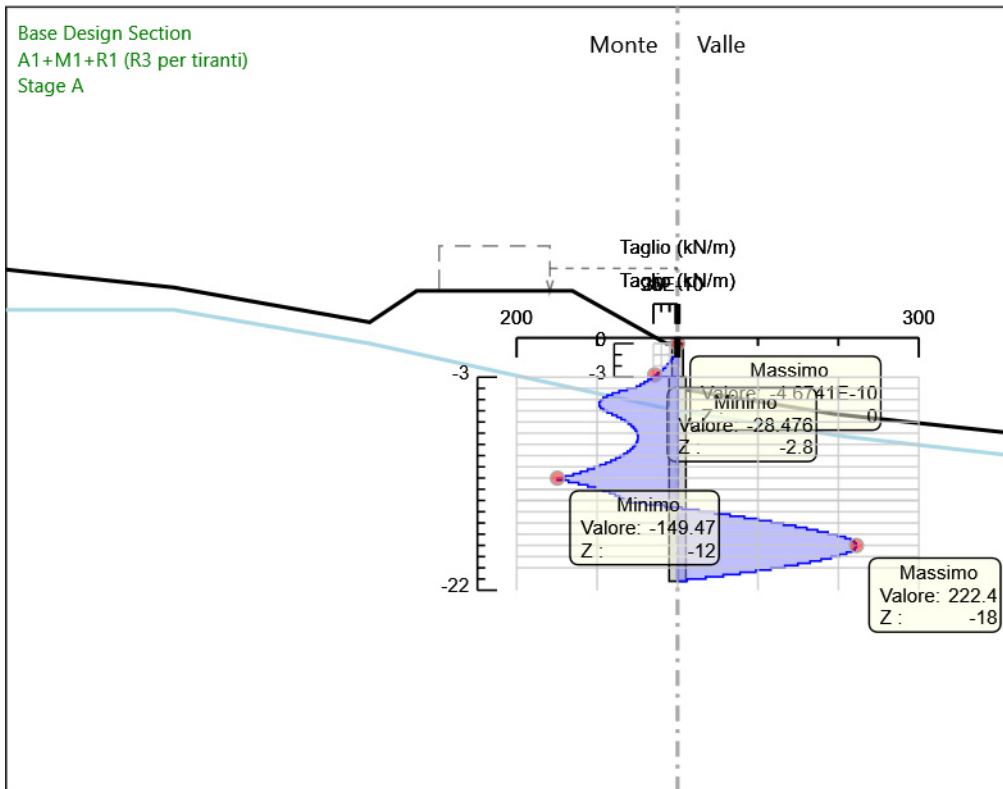
Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Sisma
Momento

6.2.10. Grafico Risultati Taglio A1+M1+R1 (R3 per tiranti) - Stage: Finale



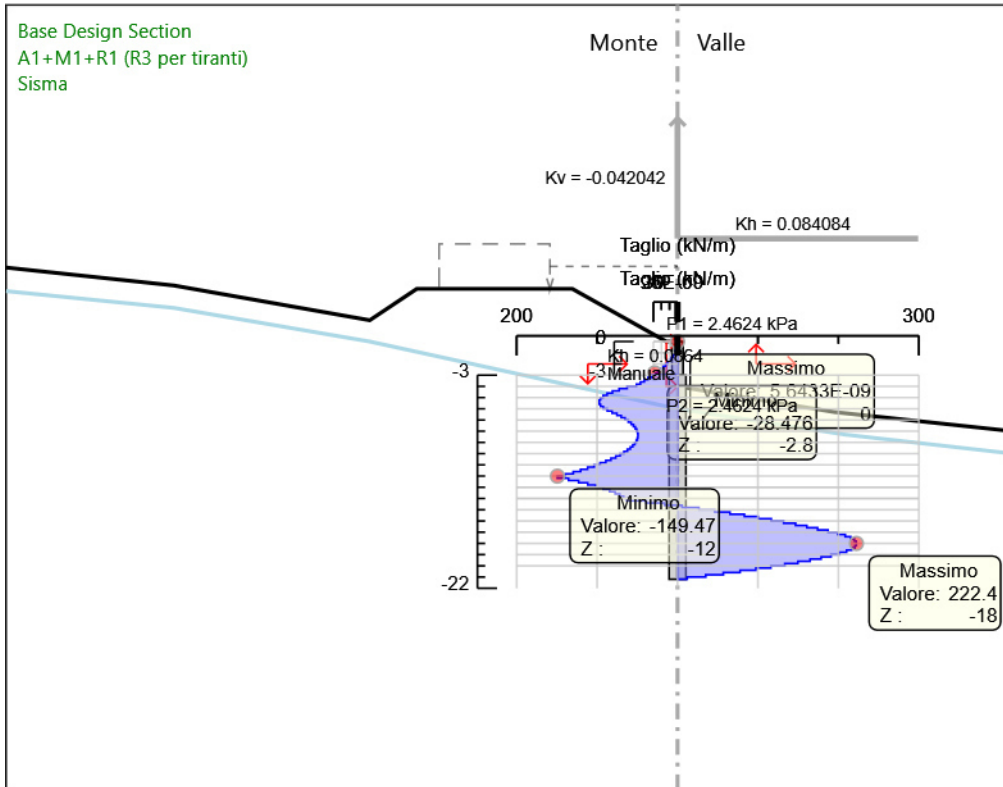
Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Finale
Taglio

6.2.11. Grafico Risultati Taglio A1+M1+R1 (R3 per tiranti) - Stage: Stage A



Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Stage A
Taglio

6.2.12. Grafico Risultati Taglio A1+M1+R1 (R3 per tiranti) - Stage: Sisma



Design Assumption: A1+M1+R1 (R3 per tiranti)
Stage: Sisma
Taglio

6.3. Risultati A2+M2+R1

6.3.1. Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Finale

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	0	0	-0.02
Finale	-0.2	0	-0.02
Finale	-0.2	0	-0.02
Finale	-0.4	-0.07	-0.32
Finale	-0.6	-0.25	-0.9
Finale	-0.8	-0.6	-1.74
Finale	-1	-1.17	-2.85
Finale	-1.2	-2.01	-4.24
Finale	-1.4	-3.19	-5.89
Finale	-1.6	-4.75	-7.81
Finale	-1.8	-6.75	-10
Finale	-2	-9.25	-12.46
Finale	-2.2	-12.29	-15.2
Finale	-2.4	-15.93	-18.2
Finale	-2.6	-20.22	-21.47
Finale	-2.8	-25.22	-25.02
Finale	-3	-30.99	-28.83

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-3	-30.99	-32.92
Finale	-3.2	-37.57	-32.92
Finale	-3.4	-45.03	-37.27
Finale	-3.6	-53.41	-41.9
Finale	-3.8	-62.77	-46.8
Finale	-4	-73.16	-51.97
Finale	-4.2	-86.01	-64.22
Finale	-4.4	-101.15	-75.71
Finale	-4.6	-118.44	-86.45
Finale	-4.8	-137.73	-96.44
Finale	-5	-158.86	-105.66
Finale	-5.2	-181.69	-114.14
Finale	-5.4	-206.06	-121.85
Finale	-5.6	-231.82	-128.82
Finale	-5.8	-258.83	-135.02
Finale	-6	-286.92	-140.48
Finale	-6.2	-315.96	-145.2
Finale	-6.4	-345.85	-149.43
Finale	-6.6	-376.51	-153.32
Finale	-6.8	-407.89	-156.86
Finale	-7	-439.9	-160.05
Finale	-7.2	-472.47	-162.89
Finale	-7.4	-505.55	-165.39
Finale	-7.6	-539.06	-167.53
Finale	-7.8	-572.92	-169.33
Finale	-8	-607.08	-170.78
Finale	-8.2	-641.46	-171.88
Finale	-8.4	-675.98	-172.63
Finale	-8.6	-710.59	-173.03
Finale	-8.8	-745.21	-173.08
Finale	-9	-779.76	-172.79
Finale	-9.2	-814.2	-172.18
Finale	-9.4	-848.45	-171.27
Finale	-9.6	-882.47	-170.05
Finale	-9.8	-916.17	-168.53
Finale	-10	-949.51	-166.7
Finale	-10.2	-982.42	-164.55
Finale	-10.4	-1014.84	-162.1
Finale	-10.6	-1046.71	-159.34
Finale	-10.8	-1078.1	-156.94
Finale	-11	-1109.21	-155.59
Finale	-11.2	-1140.27	-155.26
Finale	-11.4	-1171.45	-155.93
Finale	-11.6	-1202.97	-157.59
Finale	-11.8	-1235.01	-160.23

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-12	-1267.78	-163.82
Finale	-12.2	-1301.45	-168.36
Finale	-12.4	-1332	-152.73
Finale	-12.6	-1359.32	-136.64
Finale	-12.8	-1383.34	-120.09
Finale	-13	-1403.96	-103.08
Finale	-13.2	-1421.08	-85.6
Finale	-13.4	-1434.61	-67.65
Finale	-13.6	-1444.51	-49.52
Finale	-13.8	-1451.24	-33.62
Finale	-14	-1455.21	-19.88
Finale	-14.2	-1456.86	-8.25
Finale	-14.4	-1451.54	26.62
Finale	-14.6	-1439.74	59
Finale	-14.8	-1421.94	88.99
Finale	-15	-1398.61	116.64
Finale	-15.2	-1370.2	142.06
Finale	-15.4	-1337.14	165.31
Finale	-15.6	-1299.84	186.48
Finale	-15.8	-1258.72	205.63
Finale	-16	-1214.15	222.85
Finale	-16.2	-1166.51	238.19
Finale	-16.4	-1116.16	251.74
Finale	-16.6	-1063.45	263.56
Finale	-16.8	-1008.71	273.7
Finale	-17	-952.25	282.27
Finale	-17.2	-894.39	289.31
Finale	-17.4	-835.41	294.89
Finale	-17.6	-775.6	299.05
Finale	-17.8	-715.23	301.85
Finale	-18	-654.57	303.31
Finale	-18.2	-593.87	303.49
Finale	-18.4	-533.39	302.41
Finale	-18.6	-473.58	299.03
Finale	-18.8	-415.03	292.75
Finale	-19	-358.17	284.3
Finale	-19.2	-303.42	273.75
Finale	-19.4	-251.19	261.15
Finale	-19.6	-202.2	244.95
Finale	-19.8	-157.2	225.02
Finale	-20	-116.91	201.4
Finale	-20.2	-82.09	174.13
Finale	-20.4	-53.12	144.83
Finale	-20.6	-30.22	114.49
Finale	-20.8	-13.6	83.12
Finale	-21	-3.46	50.73
Finale	-21.2	0	17.28

6.3.2. Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Stage A

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	0	0	0
Stage A	-0.2	0	0
Stage A	-0.2	0	0
Stage A	-0.4	-0.06	-0.32
Stage A	-0.6	-0.25	-0.91
Stage A	-0.8	-0.6	-1.77
Stage A	-1	-1.18	-2.89
Stage A	-1.2	-2.03	-4.28
Stage A	-1.4	-3.22	-5.93
Stage A	-1.6	-4.79	-7.85
Stage A	-1.8	-6.8	-10.04
Stage A	-2	-9.3	-12.49
Stage A	-2.2	-12.34	-15.21
Stage A	-2.4	-15.98	-18.2
Stage A	-2.6	-20.27	-21.45
Stage A	-2.8	-25.26	-24.97
Stage A	-3	-31.01	-28.75

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-3	-31.01	-32.8
Stage A	-3.2	-37.57	-32.8
Stage A	-3.4	-45	-37.12
Stage A	-3.6	-53.34	-41.7
Stage A	-3.8	-62.65	-46.55
Stage A	-4	-72.98	-51.67
Stage A	-4.2	-85.78	-64
Stage A	-4.4	-100.9	-75.58
Stage A	-4.6	-118.18	-86.39
Stage A	-4.8	-137.47	-96.45
Stage A	-5	-158.61	-105.74
Stage A	-5.2	-181.47	-114.28
Stage A	-5.4	-205.88	-122.05
Stage A	-5.6	-231.69	-129.07
Stage A	-5.8	-258.76	-135.33
Stage A	-6	-286.93	-140.83
Stage A	-6.2	-316.05	-145.6
Stage A	-6.4	-346.02	-149.87
Stage A	-6.6	-376.78	-153.79
Stage A	-6.8	-408.25	-157.36
Stage A	-7	-440.37	-160.58
Stage A	-7.2	-473.06	-163.45
Stage A	-7.4	-506.25	-165.96
Stage A	-7.6	-539.88	-168.13
Stage A	-7.8	-573.87	-169.94
Stage A	-8	-608.15	-171.4
Stage A	-8.2	-642.65	-172.5
Stage A	-8.4	-677.3	-173.26
Stage A	-8.6	-712.03	-173.65
Stage A	-8.8	-746.77	-173.7
Stage A	-9	-781.45	-173.39
Stage A	-9.2	-816	-172.76
Stage A	-9.4	-850.36	-171.81
Stage A	-9.6	-884.47	-170.53
Stage A	-9.8	-918.25	-168.93
Stage A	-10	-951.65	-167
Stage A	-10.2	-984.6	-164.75
Stage A	-10.4	-1017.04	-162.17
Stage A	-10.6	-1048.89	-159.26
Stage A	-10.8	-1080.23	-156.71
Stage A	-11	-1111.27	-155.18
Stage A	-11.2	-1142.2	-154.66
Stage A	-11.4	-1173.22	-155.13
Stage A	-11.6	-1204.54	-156.57
Stage A	-11.8	-1236.33	-158.97
Stage A	-12	-1268.8	-162.31
Stage A	-12.2	-1302.11	-166.58
Stage A	-12.4	-1332.34	-171.14

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-12.6	-1359.38	-135.21
Stage A	-12.8	-1383.14	-118.8
Stage A	-13	-1403.53	-101.91
Stage A	-13.2	-1420.43	-84.53
Stage A	-13.4	-1433.76	-66.66
Stage A	-13.6	-1443.48	-48.59
Stage A	-13.8	-1450.03	-32.73
Stage A	-14	-1453.83	-19.02
Stage A	-14.2	-1455.31	-7.39
Stage A	-14.4	-1449.85	27.31
Stage A	-14.6	-1437.94	59.54
Stage A	-14.8	-1420.06	89.4
Stage A	-15	-1396.68	116.94
Stage A	-15.2	-1368.22	142.26
Stage A	-15.4	-1335.14	165.43
Stage A	-15.6	-1297.83	186.53
Stage A	-15.8	-1256.7	205.63
Stage A	-16	-1212.14	222.8
Stage A	-16.2	-1164.52	238.12
Stage A	-16.4	-1114.19	251.65
Stage A	-16.6	-1061.5	263.46
Stage A	-16.8	-1006.78	273.61
Stage A	-17	-950.34	282.17
Stage A	-17.2	-892.5	289.21
Stage A	-17.4	-833.54	294.78
Stage A	-17.6	-773.76	298.92
Stage A	-17.8	-713.42	301.69
Stage A	-18	-652.79	303.13
Stage A	-18.2	-592.14	303.27
Stage A	-18.4	-531.71	302.15
Stage A	-18.6	-471.97	298.72
Stage A	-18.8	-413.49	292.37
Stage A	-19	-356.72	283.85
Stage A	-19.2	-302.08	273.22
Stage A	-19.4	-249.97	260.52
Stage A	-19.6	-201.13	244.22
Stage A	-19.8	-156.29	224.17
Stage A	-20	-116.21	200.43
Stage A	-20.2	-81.61	173.01
Stage A	-20.4	-52.82	143.93
Stage A	-20.6	-30.06	113.81
Stage A	-20.8	-13.53	82.65
Stage A	-21	-3.44	50.45
Stage A	-21.2	0	17.19

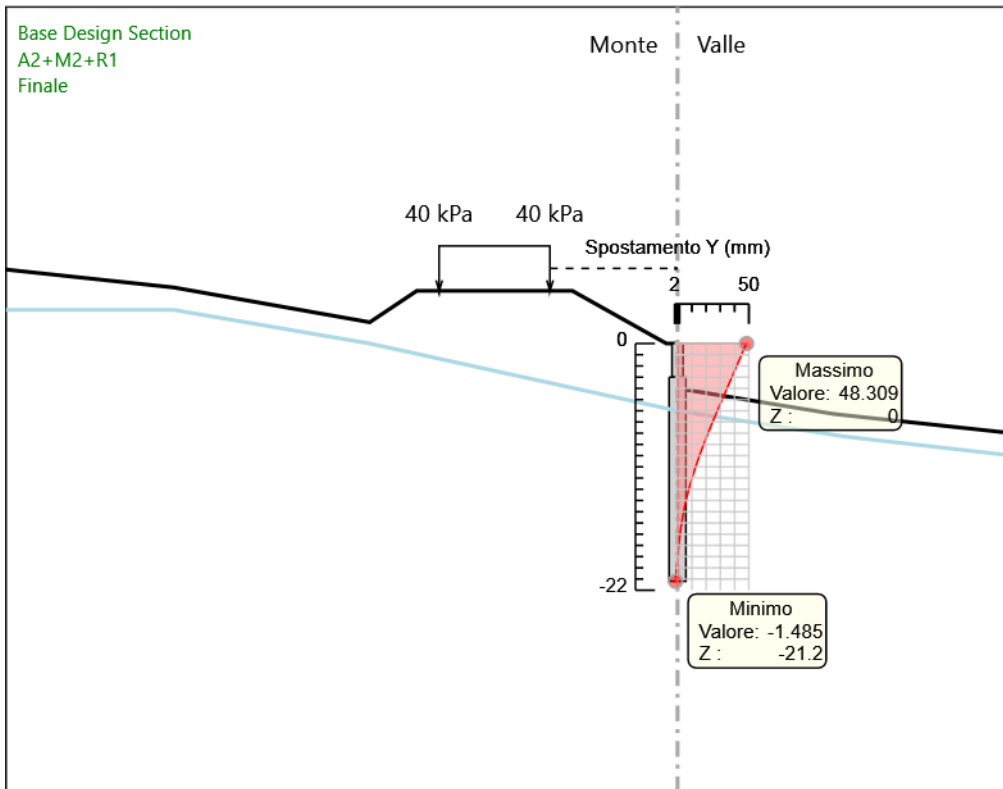
6.3.3. Tabella Risultati Paratia A2+M2+R1 - Left Wall - Stage: Sisma

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	0	0	0
Sisma	-0.2	0	0
Sisma	-0.2	0	0
Sisma	-0.4	-0.06	-0.32
Sisma	-0.6	-0.25	-0.91
Sisma	-0.8	-0.6	-1.77
Sisma	-1	-1.18	-2.89
Sisma	-1.2	-2.03	-4.28
Sisma	-1.4	-3.22	-5.93
Sisma	-1.6	-4.79	-7.85
Sisma	-1.8	-6.8	-10.04
Sisma	-2	-9.3	-12.49
Sisma	-2.2	-12.34	-15.21
Sisma	-2.4	-15.98	-18.2
Sisma	-2.6	-20.27	-21.45
Sisma	-2.8	-25.26	-24.97
Sisma	-3	-31.01	-28.75

Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-3	-31.01	-32.8
Sisma	-3.2	-37.57	-32.8
Sisma	-3.4	-45	-37.12
Sisma	-3.6	-53.34	-41.7
Sisma	-3.8	-62.65	-46.55
Sisma	-4	-72.98	-51.67
Sisma	-4.2	-85.78	-64
Sisma	-4.4	-100.9	-75.58
Sisma	-4.6	-118.18	-86.39
Sisma	-4.8	-137.47	-96.45
Sisma	-5	-158.61	-105.74
Sisma	-5.2	-181.47	-114.28
Sisma	-5.4	-205.88	-122.05
Sisma	-5.6	-231.69	-129.07
Sisma	-5.8	-258.76	-135.33
Sisma	-6	-286.93	-140.83
Sisma	-6.2	-316.05	-145.6
Sisma	-6.4	-346.02	-149.87
Sisma	-6.6	-376.78	-153.79
Sisma	-6.8	-408.25	-157.36
Sisma	-7	-440.37	-160.58
Sisma	-7.2	-473.06	-163.45
Sisma	-7.4	-506.25	-165.96
Sisma	-7.6	-539.88	-168.13
Sisma	-7.8	-573.87	-169.94
Sisma	-8	-608.15	-171.4
Sisma	-8.2	-642.65	-172.5
Sisma	-8.4	-677.3	-173.26
Sisma	-8.6	-712.03	-173.65
Sisma	-8.8	-746.77	-173.7
Sisma	-9	-781.45	-173.39
Sisma	-9.2	-816	-172.76
Sisma	-9.4	-850.36	-171.81
Sisma	-9.6	-884.47	-170.53
Sisma	-9.8	-918.25	-168.93
Sisma	-10	-951.65	-167
Sisma	-10.2	-984.6	-164.75
Sisma	-10.4	-1017.04	-162.17
Sisma	-10.6	-1048.89	-159.26
Sisma	-10.8	-1080.23	-156.71
Sisma	-11	-1111.27	-155.18
Sisma	-11.2	-1142.2	-154.66
Sisma	-11.4	-1173.22	-155.13
Sisma	-11.6	-1204.54	-156.57
Sisma	-11.8	-1236.33	-158.97
Sisma	-12	-1268.8	-162.31
Sisma	-12.2	-1302.11	-166.58
Sisma	-12.4	-1332.34	-171.14

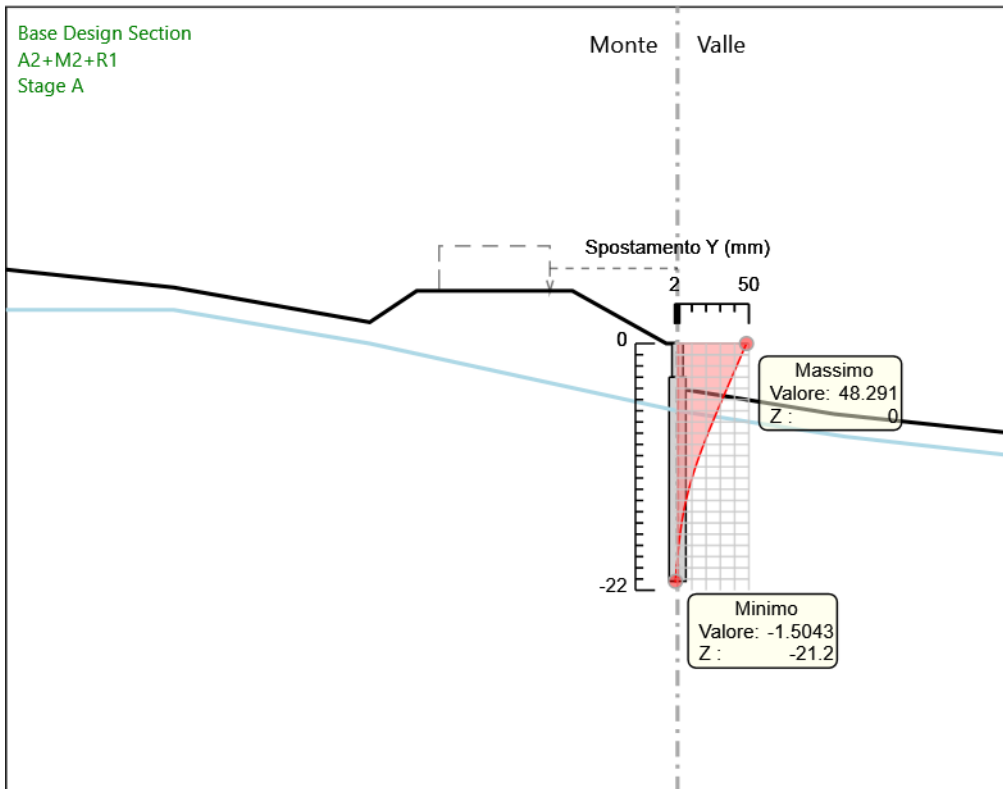
Design Assumption: A2+M2+R1 Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-12.6	-1359.38	-135.21
Sisma	-12.8	-1383.14	-118.8
Sisma	-13	-1403.53	-101.91
Sisma	-13.2	-1420.43	-84.53
Sisma	-13.4	-1433.76	-66.66
Sisma	-13.6	-1443.48	-48.59
Sisma	-13.8	-1450.03	-32.73
Sisma	-14	-1453.83	-19.02
Sisma	-14.2	-1455.31	-7.39
Sisma	-14.4	-1449.85	27.31
Sisma	-14.6	-1437.94	59.54
Sisma	-14.8	-1420.06	89.4
Sisma	-15	-1396.68	116.94
Sisma	-15.2	-1368.22	142.26
Sisma	-15.4	-1335.14	165.43
Sisma	-15.6	-1297.83	186.53
Sisma	-15.8	-1256.7	205.63
Sisma	-16	-1212.14	222.8
Sisma	-16.2	-1164.52	238.12
Sisma	-16.4	-1114.19	251.65
Sisma	-16.6	-1061.5	263.46
Sisma	-16.8	-1006.78	273.61
Sisma	-17	-950.34	282.17
Sisma	-17.2	-892.5	289.21
Sisma	-17.4	-833.54	294.78
Sisma	-17.6	-773.76	298.92
Sisma	-17.8	-713.42	301.69
Sisma	-18	-652.79	303.13
Sisma	-18.2	-592.14	303.27
Sisma	-18.4	-531.71	302.15
Sisma	-18.6	-471.97	298.72
Sisma	-18.8	-413.49	292.37
Sisma	-19	-356.72	283.85
Sisma	-19.2	-302.08	273.22
Sisma	-19.4	-249.97	260.52
Sisma	-19.6	-201.13	244.22
Sisma	-19.8	-156.29	224.17
Sisma	-20	-116.21	200.43
Sisma	-20.2	-81.61	173.01
Sisma	-20.4	-52.82	143.93
Sisma	-20.6	-30.06	113.81
Sisma	-20.8	-13.53	82.65
Sisma	-21	-3.44	50.45
Sisma	-21.2	0	17.19

6.3.4. Grafico Spostamento A2+M2+R1 - Stage: Finale



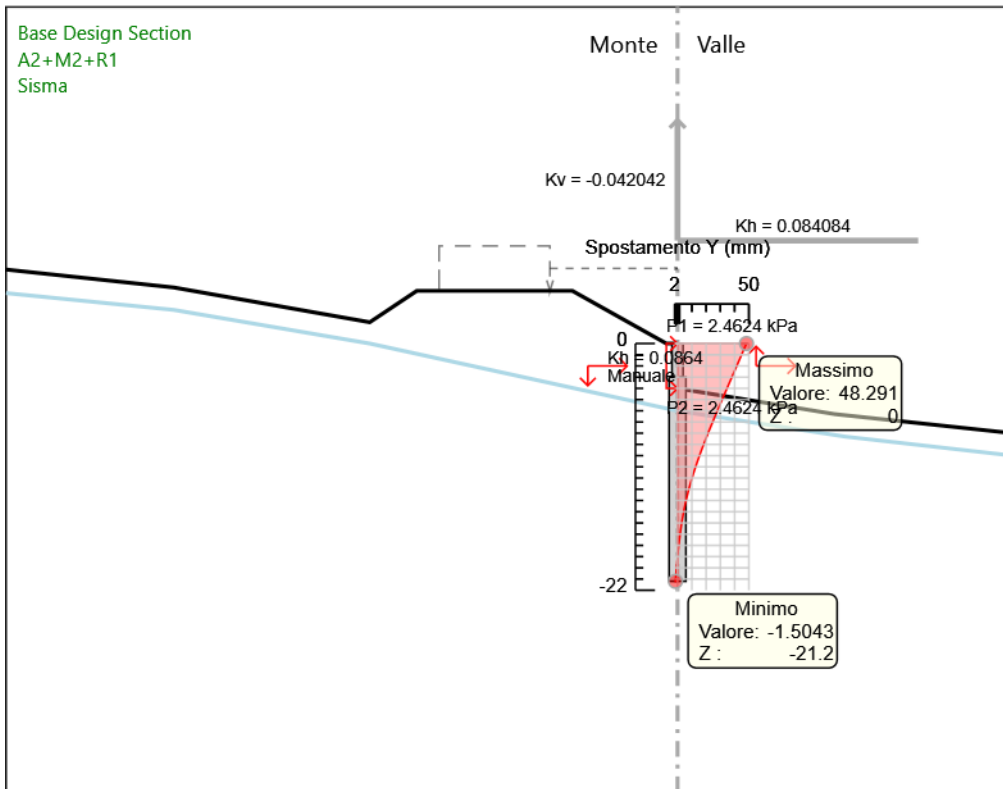
Design Assumption: A2+M2+R1
Stage: Finale
Spostamento orizzontale

6.3.5. Grafico Spostamento A2+M2+R1 - Stage: Stage A



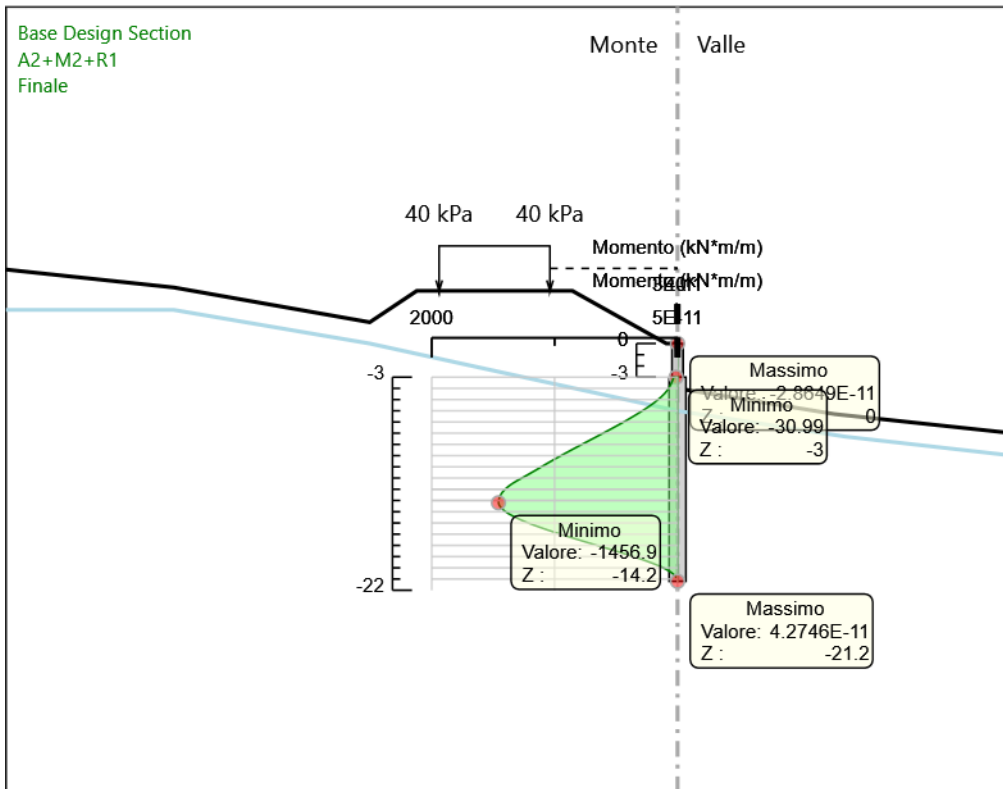
Design Assumption: A2+M2+R1
Stage: Stage A
Spostamento orizzontale

6.3.6. Grafico Spostamento A2+M2+R1 - Stage: Sisma



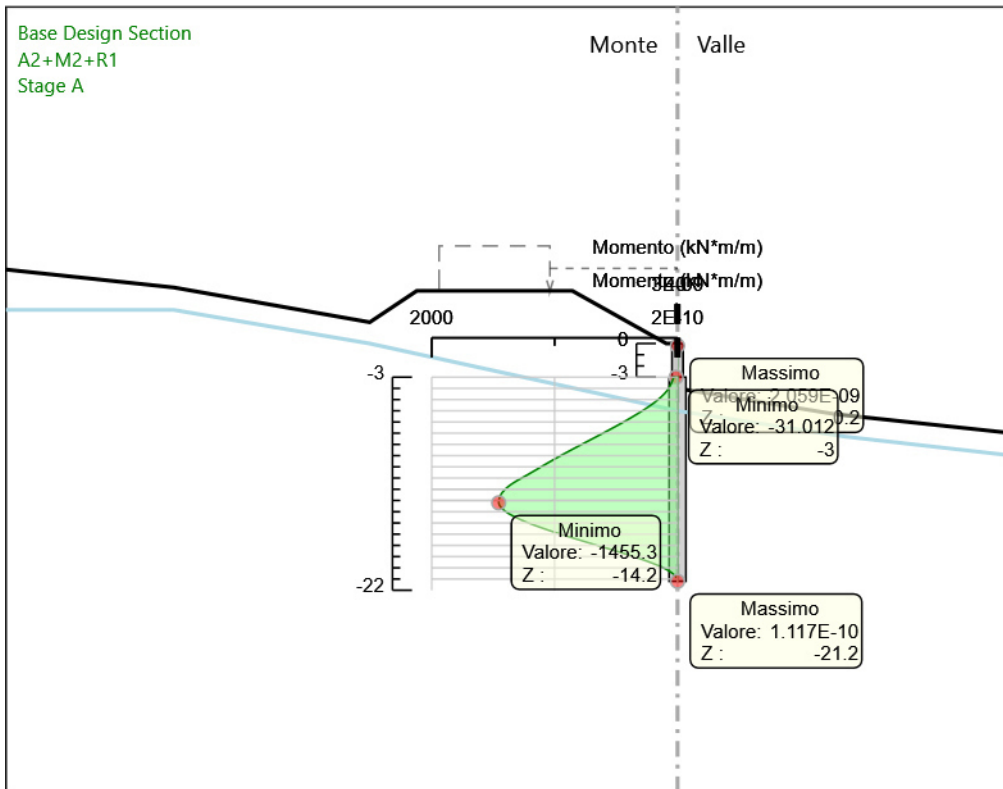
Design Assumption: A2+M2+R1
Stage: Sisma
Spostamento orizzontale

6.3.7. Grafico Risultati Momento A2+M2+R1 - Stage: Finale



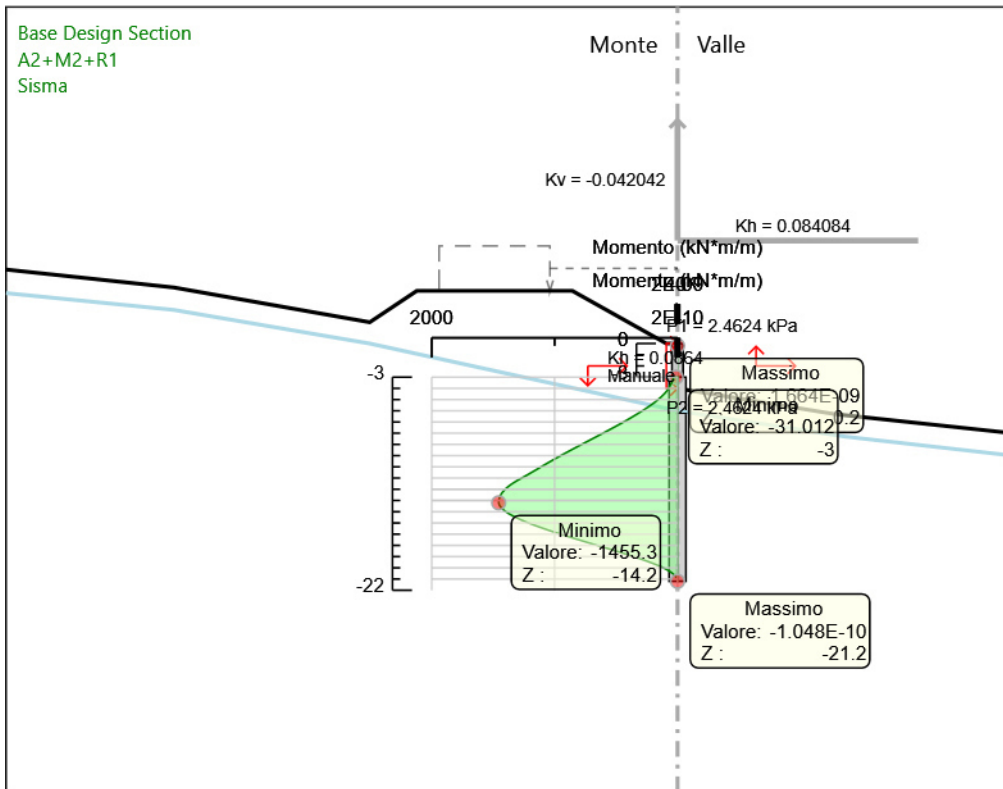
Design Assumption: A2+M2+R1
Stage: Finale
Momento

6.3.8. Grafico Risultati Momento A2+M2+R1 - Stage: Stage A



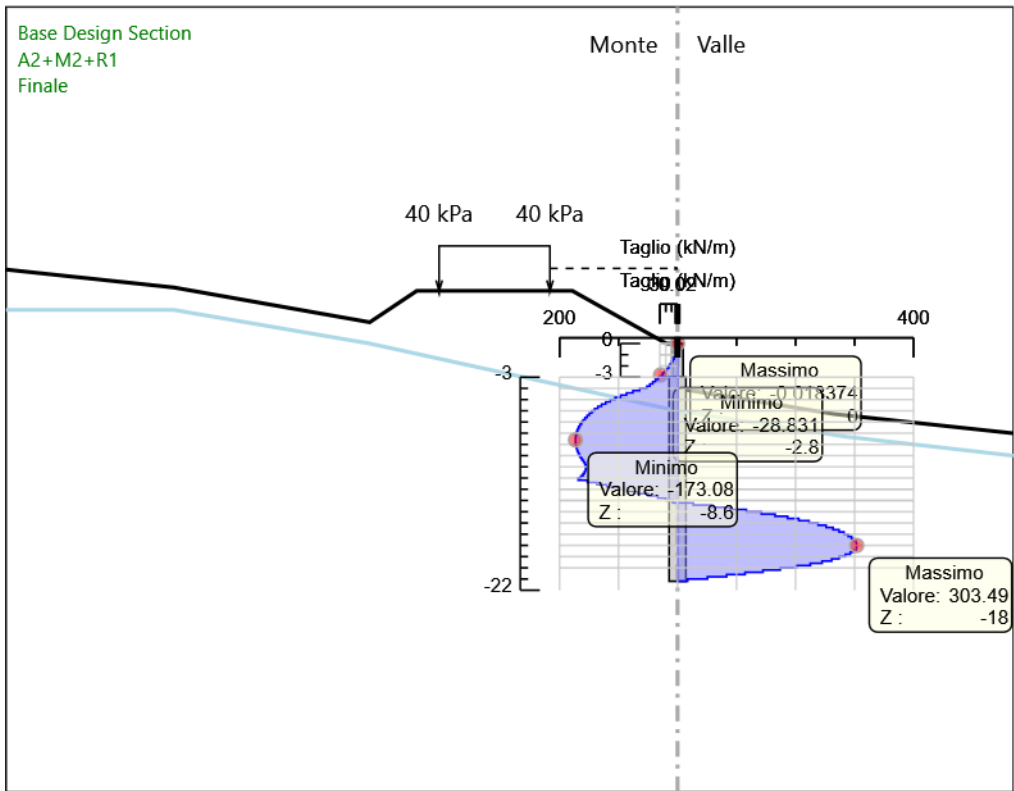
Design Assumption: A2+M2+R1
Stage: Stage A
Momento

6.3.9. Grafico Risultati Momento A2+M2+R1 - Stage: Sisma



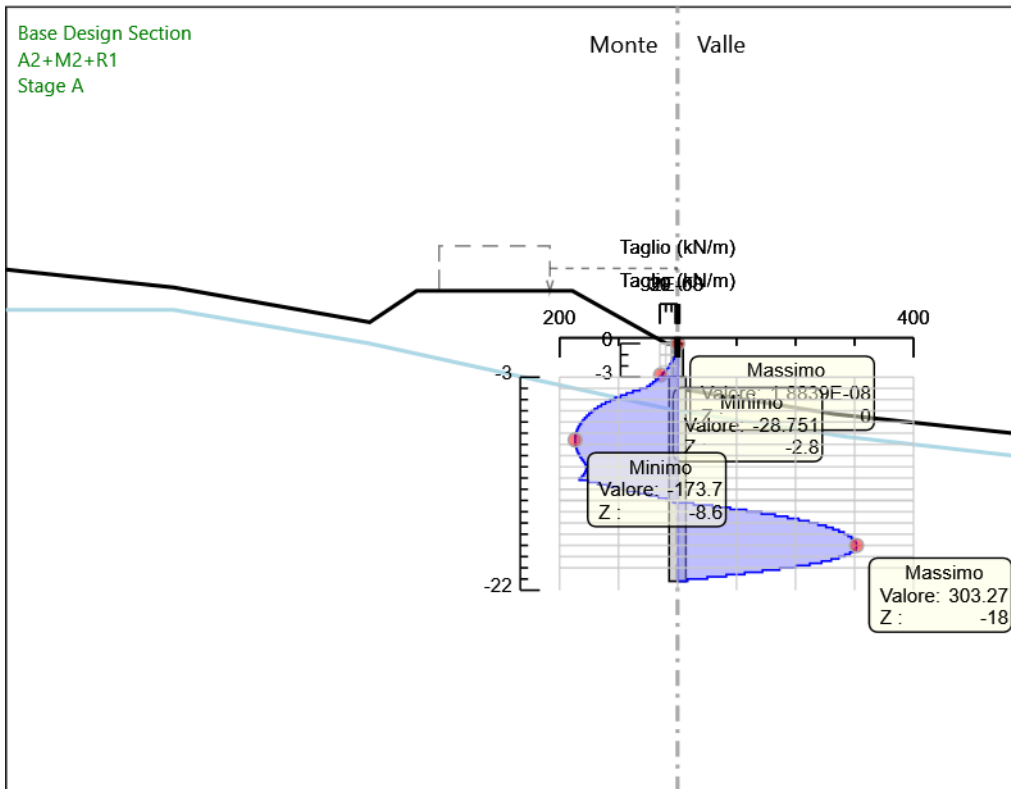
Design Assumption: A2+M2+R1
Stage: Sisma
Momento

6.3.10. Grafico Risultati Taglio A2+M2+R1 - Stage: Finale



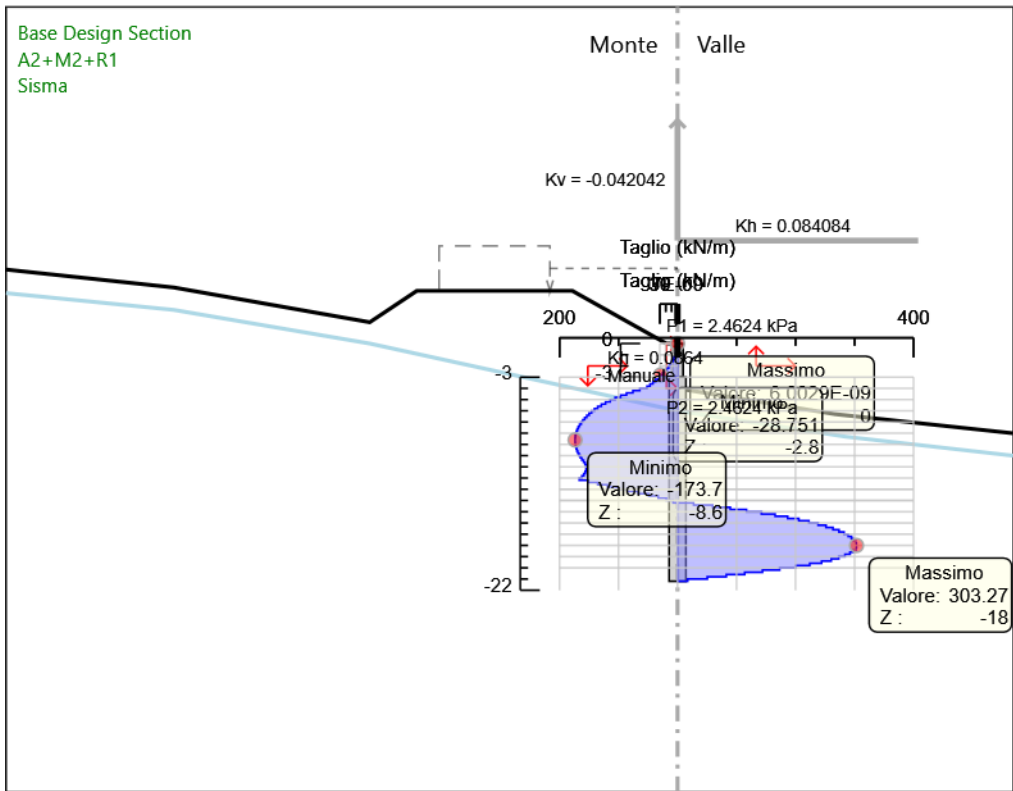
Design Assumption: A2+M2+R1
Stage: Finale
Taglio

6.3.11. Grafico Risultati Taglio A2+M2+R1 - Stage: Stage A



Design Assumption: A2+M2+R1
Stage: Stage A
Taglio

6.3.12. Grafico Risultati Taglio A2+M2+R1 - Stage: Sisma



Design Assumption: A2+M2+R1
Stage: Sisma
Taglio

6.4. Risultati SISMICA STR

6.4.1. Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: Finale

Design Assumption: SISMICA STR Risultati Paratia Muro: LEFT			
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	0	0	-0.01
Finale	-0.2	0	-0.01
Finale	-0.4	-0.05	-0.24
Finale	-0.6	-0.18	-0.67
Finale	-0.8	-0.44	-1.3
Finale	-1	-0.87	-2.14
Finale	-1.2	-1.51	-3.19
Finale	-1.4	-2.4	-4.44
Finale	-1.6	-3.58	-5.9
Finale	-1.8	-5.09	-7.56
Finale	-2	-6.98	-9.43
Finale	-2.2	-9.28	-11.5
Finale	-2.4	-12.03	-13.78
Finale	-2.6	-15.29	-16.26
Finale	-2.8	-19.08	-18.95
Finale	-3	-23.45	-21.85

Design Assumption: SISMICA STR Risultati Paratia Muro: LEFT			
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-3	-23.45	-24.95
Finale	-3.2	-28.44	-24.95
Finale	-3.4	-34.09	-28.26
Finale	-3.6	-40.44	-31.78
Finale	-3.8	-47.54	-35.5
Finale	-4	-55.43	-39.42
Finale	-4.2	-65.07	-48.23
Finale	-4.4	-76.23	-55.76
Finale	-4.6	-88.63	-62.02
Finale	-4.8	-102.03	-67
Finale	-5	-116.17	-70.7
Finale	-5.2	-130.8	-73.14
Finale	-5.4	-145.65	-74.29
Finale	-5.6	-160.49	-74.17
Finale	-5.8	-175.04	-72.78
Finale	-6	-189.07	-70.11
Finale	-6.2	-202.32	-66.24
Finale	-6.4	-214.63	-61.55
Finale	-6.6	-226.03	-57
Finale	-6.8	-236.61	-52.94
Finale	-7	-246.49	-49.36
Finale	-7.2	-255.74	-46.25
Finale	-7.4	-264.46	-43.62
Finale	-7.6	-272.75	-41.46
Finale	-7.8	-280.7	-39.77
Finale	-8	-288.41	-38.54
Finale	-8.2	-295.97	-37.78
Finale	-8.4	-303.46	-37.47
Finale	-8.6	-310.99	-37.62
Finale	-8.8	-318.63	-38.22
Finale	-9	-326.48	-39.27
Finale	-9.2	-334.64	-40.79
Finale	-9.4	-343.2	-42.78
Finale	-9.6	-352.25	-45.23
Finale	-9.8	-361.88	-48.14
Finale	-10	-372.18	-51.51
Finale	-10.2	-383.24	-55.32
Finale	-10.4	-395.16	-59.58
Finale	-10.6	-408.01	-64.28
Finale	-10.8	-421.89	-69.41
Finale	-11	-436.89	-74.96
Finale	-11.2	-453.08	-80.95
Finale	-11.4	-470.55	-87.34
Finale	-11.6	-489.38	-94.15
Finale	-11.8	-509.65	-101.36
Finale	-12	-531.44	-108.98

Design Assumption: SISMICA STR Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-12.2	-554.84	-116.98
Finale	-12.4	-576.07	-106.16
Finale	-12.6	-595.33	-96.3
Finale	-12.8	-612.81	-87.39
Finale	-13	-628.69	-79.4
Finale	-13.2	-643.15	-72.31
Finale	-13.4	-656.37	-66.09
Finale	-13.6	-668.51	-60.71
Finale	-13.8	-679.74	-56.16
Finale	-14	-690.22	-52.4
Finale	-14.2	-700.11	-49.41
Finale	-14.4	-706.24	-30.68
Finale	-14.6	-708.81	-12.84
Finale	-14.8	-707.98	4.14
Finale	-15	-703.92	20.3
Finale	-15.2	-696.79	35.68
Finale	-15.4	-686.72	50.32
Finale	-15.6	-673.88	64.24
Finale	-15.8	-658.38	77.49
Finale	-16	-640.36	90.1
Finale	-16.2	-619.94	102.1
Finale	-16.4	-597.23	113.52
Finale	-16.6	-572.35	124.41
Finale	-16.8	-545.4	134.78
Finale	-17	-516.46	144.69
Finale	-17.2	-485.67	153.92
Finale	-17.4	-453.46	161.08
Finale	-17.6	-420.19	166.32
Finale	-17.8	-386.25	169.73
Finale	-18	-351.96	171.44
Finale	-18.2	-317.65	171.53
Finale	-18.4	-283.63	170.1
Finale	-18.6	-250.25	166.94
Finale	-18.8	-217.85	161.95
Finale	-19	-186.81	155.22
Finale	-19.2	-157.41	146.98
Finale	-19.4	-129.91	137.54
Finale	-19.6	-104.52	126.91
Finale	-19.8	-81.46	115.31
Finale	-20	-60.9	102.79
Finale	-20.2	-43.03	89.38
Finale	-20.4	-28.01	75.07
Finale	-20.6	-16.03	59.9
Finale	-20.8	-7.26	43.88
Finale	-21	-1.86	27
Finale	-21.2	0	9.28

6.4.2. Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: Stage A

Design Assumption: SISMICA STR Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	0	0	0
Stage A	-0.2	0	0
Stage A	-0.2	0	0
Stage A	-0.4	-0.05	-0.24
Stage A	-0.6	-0.19	-0.68
Stage A	-0.8	-0.45	-1.33
Stage A	-1	-0.89	-2.18
Stage A	-1.2	-1.53	-3.23
Stage A	-1.4	-2.43	-4.49
Stage A	-1.6	-3.62	-5.94
Stage A	-1.8	-5.14	-7.6
Stage A	-2	-7.03	-9.46
Stage A	-2.2	-9.34	-11.53
Stage A	-2.4	-12.1	-13.8
Stage A	-2.6	-15.35	-16.27
Stage A	-2.8	-19.14	-18.94
Stage A	-3	-23.5	-21.81

Design Assumption: SISMICA STR Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-3	-23.5	-24.89
Stage A	-3.2	-28.48	-24.89
Stage A	-3.4	-34.11	-28.17
Stage A	-3.6	-40.45	-31.66
Stage A	-3.8	-47.51	-35.34
Stage A	-4	-55.36	-39.23
Stage A	-4.2	-64.98	-48.1
Stage A	-4.4	-76.12	-55.68
Stage A	-4.6	-88.52	-61.99
Stage A	-4.8	-101.92	-67.03
Stage A	-5	-116.08	-70.78
Stage A	-5.2	-130.73	-73.26
Stage A	-5.4	-145.62	-74.46
Stage A	-5.6	-160.5	-74.38
Stage A	-5.8	-175.1	-73.02
Stage A	-6	-189.18	-70.39
Stage A	-6.2	-202.49	-66.55
Stage A	-6.4	-214.86	-61.89
Stage A	-6.6	-226.34	-57.37
Stage A	-6.8	-237	-53.33
Stage A	-7	-246.95	-49.76
Stage A	-7.2	-256.29	-46.67
Stage A	-7.4	-265.1	-44.06
Stage A	-7.6	-273.48	-41.91
Stage A	-7.8	-281.53	-40.23
Stage A	-8	-289.33	-39.01
Stage A	-8.2	-296.98	-38.25
Stage A	-8.4	-304.57	-37.95
Stage A	-8.6	-312.19	-38.1
Stage A	-8.8	-319.93	-38.69
Stage A	-9	-327.87	-39.74
Stage A	-9.2	-336.12	-41.24
Stage A	-9.4	-344.76	-43.2
Stage A	-9.6	-353.88	-45.6
Stage A	-9.8	-363.57	-48.46
Stage A	-10	-373.92	-51.75
Stage A	-10.2	-385.02	-55.48
Stage A	-10.4	-396.95	-59.65
Stage A	-10.6	-409.8	-64.24
Stage A	-10.8	-423.65	-69.25
Stage A	-11	-438.58	-74.68
Stage A	-11.2	-454.69	-80.51
Stage A	-11.4	-472.04	-86.76
Stage A	-11.6	-490.72	-93.4
Stage A	-11.8	-510.8	-100.43
Stage A	-12	-532.38	-107.86
Stage A	-12.2	-555.51	-115.66
Stage A	-12.4	-576.5	-104.99

Design Assumption: SISMICA STR Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-12.6	-595.56	-95.27
Stage A	-12.8	-612.85	-86.48
Stage A	-13	-628.57	-78.59
Stage A	-13.2	-642.89	-71.59
Stage A	-13.4	-655.98	-65.44
Stage A	-13.6	-668	-60.12
Stage A	-13.8	-679.12	-55.61
Stage A	-14	-689.5	-51.88
Stage A	-14.2	-699.28	-48.9
Stage A	-14.4	-705.35	-30.32
Stage A	-14.6	-707.87	-12.61
Stage A	-14.8	-707.01	4.27
Stage A	-15	-702.95	20.33
Stage A	-15.2	-695.82	35.63
Stage A	-15.4	-685.78	50.19
Stage A	-15.6	-672.97	64.06
Stage A	-15.8	-657.52	77.27
Stage A	-16	-639.55	89.84
Stage A	-16.2	-619.19	101.82
Stage A	-16.4	-596.54	113.24
Stage A	-16.6	-571.71	124.12
Stage A	-16.8	-544.81	134.51
Stage A	-17	-515.93	144.43
Stage A	-17.2	-485.2	153.66
Stage A	-17.4	-453.03	160.84
Stage A	-17.6	-419.81	166.09
Stage A	-17.8	-385.91	169.52
Stage A	-18	-351.66	171.23
Stage A	-18.2	-317.39	171.34
Stage A	-18.4	-283.41	169.92
Stage A	-18.6	-250.05	166.78
Stage A	-18.8	-217.69	161.8
Stage A	-19	-186.68	155.08
Stage A	-19.2	-157.3	146.86
Stage A	-19.4	-129.82	137.43
Stage A	-19.6	-104.46	126.82
Stage A	-19.8	-81.41	115.23
Stage A	-20	-60.87	102.72
Stage A	-20.2	-43	89.32
Stage A	-20.4	-28	75.03
Stage A	-20.6	-16.02	59.86
Stage A	-20.8	-7.25	43.85
Stage A	-21	-1.86	26.99
Stage A	-21.2	0	9.28

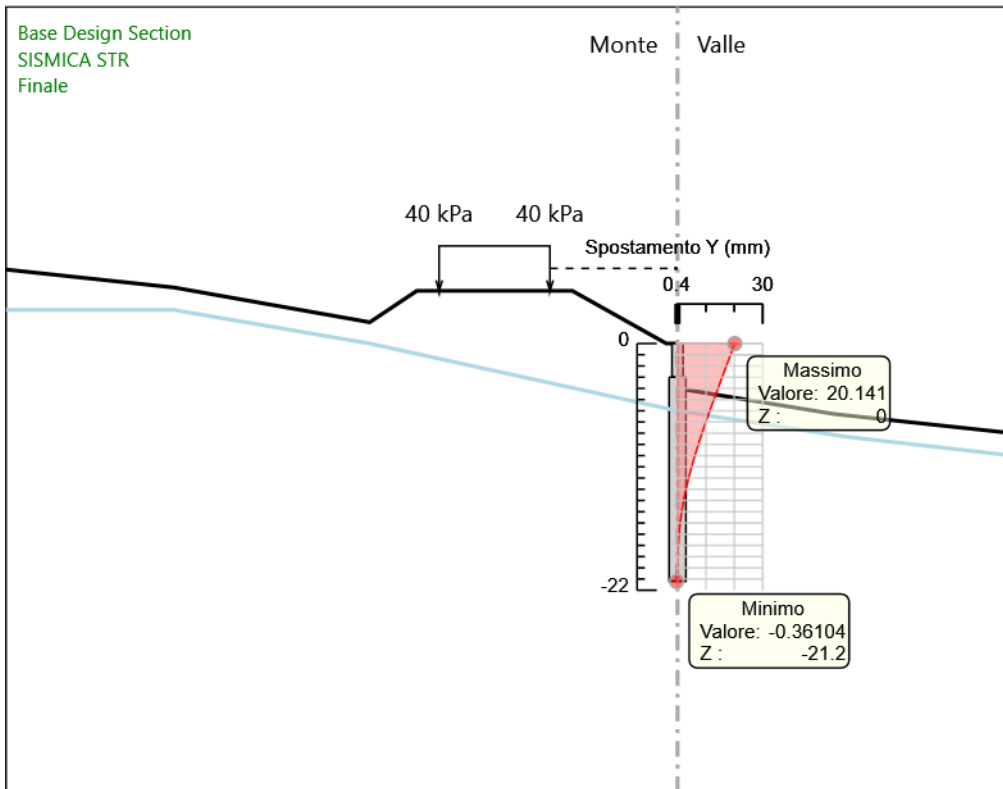
6.4.3. Tabella Risultati Paratia SISMICA STR - Left Wall - Stage: Sisma

Design Assumption: SISMICA STR Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	0	0	-0.46
Sisma	-0.2	-0.09	-0.46
Sisma	-0.4	-0.41	-1.59
Sisma	-0.6	-0.99	-2.92
Sisma	-0.8	-1.88	-4.45
Sisma	-1	-3.12	-6.18
Sisma	-1.2	-4.74	-8.12
Sisma	-1.4	-6.79	-10.25
Sisma	-1.6	-9.31	-12.59
Sisma	-1.8	-12.34	-15.14
Sisma	-2	-15.92	-17.88
Sisma	-2.2	-20.08	-20.82
Sisma	-2.4	-24.87	-23.97
Sisma	-2.6	-30.34	-27.32
Sisma	-2.8	-36.51	-30.88
Sisma	-3	-43.44	-34.63

Design Assumption: SISMICA STR Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-3	-43.44	-38.6
Sisma	-3.2	-51.16	-38.6
Sisma	-3.4	-59.71	-42.77
Sisma	-3.6	-69.14	-47.15
Sisma	-3.8	-79.49	-51.73
Sisma	-4	-90.79	-56.51
Sisma	-4.2	-103.92	-65.63
Sisma	-4.4	-118.57	-73.27
Sisma	-4.6	-134.55	-79.89
Sisma	-4.8	-151.65	-85.51
Sisma	-5	-169.67	-90.11
Sisma	-5.2	-188.41	-93.7
Sisma	-5.4	-207.67	-96.29
Sisma	-5.6	-227.24	-97.86
Sisma	-5.8	-246.93	-98.42
Sisma	-6	-266.52	-97.97
Sisma	-6.2	-285.84	-96.58
Sisma	-6.4	-304.76	-94.63
Sisma	-6.6	-323.23	-92.34
Sisma	-6.8	-341.18	-89.71
Sisma	-7	-358.52	-86.74
Sisma	-7.2	-375.21	-83.42
Sisma	-7.4	-391.16	-79.77
Sisma	-7.6	-406.32	-75.77
Sisma	-7.8	-420.65	-71.69
Sisma	-8	-434.29	-68.16
Sisma	-8.2	-447.32	-65.17
Sisma	-8.4	-459.86	-62.72
Sisma	-8.6	-472.02	-60.79
Sisma	-8.8	-483.9	-59.39
Sisma	-9	-495.6	-58.51
Sisma	-9.2	-507.23	-58.14
Sisma	-9.4	-518.89	-58.29
Sisma	-9.6	-530.67	-58.93
Sisma	-9.8	-542.69	-60.07
Sisma	-10	-555.03	-61.7
Sisma	-10.2	-567.79	-63.81
Sisma	-10.4	-581.07	-66.41
Sisma	-10.6	-594.97	-69.47
Sisma	-10.8	-609.57	-72.99
Sisma	-11	-624.96	-76.98
Sisma	-11.2	-641.24	-81.41
Sisma	-11.4	-658.5	-86.28
Sisma	-11.6	-676.82	-91.59
Sisma	-11.8	-696.28	-97.33
Sisma	-12	-716.98	-103.49
Sisma	-12.2	-738.99	-110.05
Sisma	-12.4	-758.39	-97
Sisma	-12.6	-775.4	-85.02

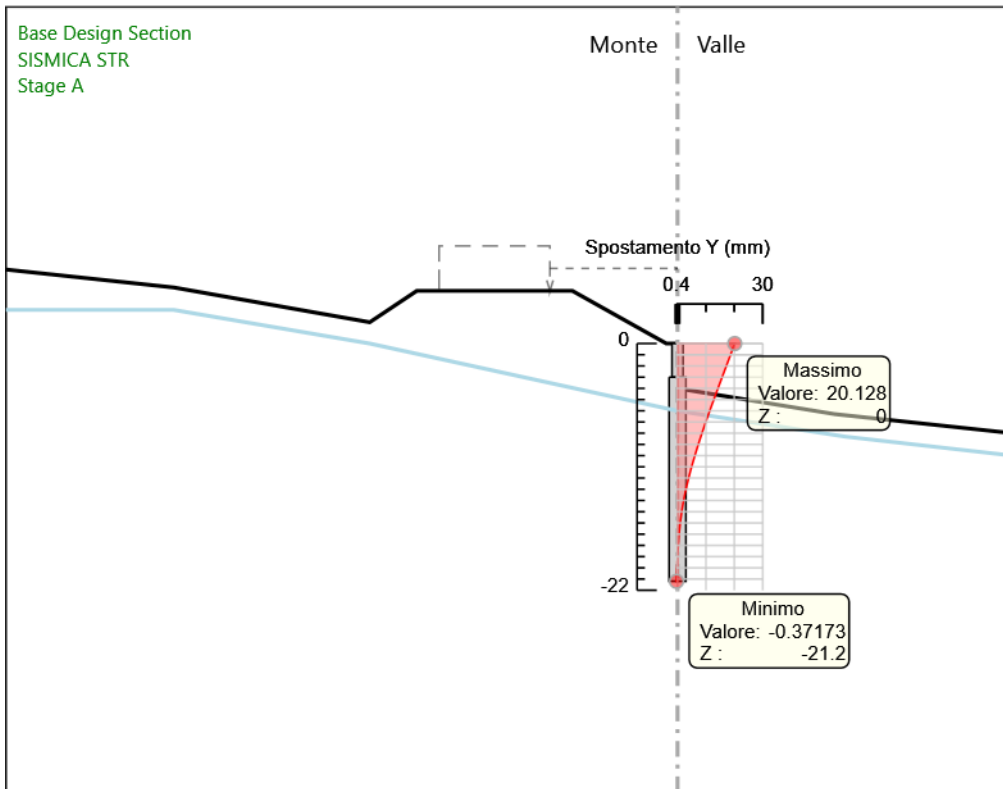
Design Assumption: SISMICA STR Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-12.8	-790.22	-74.1
Sisma	-13	-803.06	-64.2
Sisma	-13.2	-814.12	-55.3
Sisma	-13.4	-823.59	-47.35
Sisma	-13.6	-831.65	-40.34
Sisma	-13.8	-838.5	-34.22
Sisma	-14	-844.29	-28.96
Sisma	-14.2	-849.2	-24.54
Sisma	-14.4	-850.08	-4.42
Sisma	-14.6	-847.14	14.72
Sisma	-14.8	-840.55	32.94
Sisma	-15	-830.49	50.28
Sisma	-15.2	-817.14	66.78
Sisma	-15.4	-800.65	82.46
Sisma	-15.6	-781.21	97.16
Sisma	-15.8	-759.03	110.92
Sisma	-16	-734.29	123.71
Sisma	-16.2	-707.17	135.61
Sisma	-16.4	-677.83	146.68
Sisma	-16.6	-646.43	156.98
Sisma	-16.8	-613.12	166.58
Sisma	-17	-578.01	175.53
Sisma	-17.2	-541.28	183.63
Sisma	-17.4	-503.37	189.55
Sisma	-17.6	-464.69	193.42
Sisma	-17.8	-425.61	195.38
Sisma	-18	-386.5	195.54
Sisma	-18.2	-347.7	194.03
Sisma	-18.4	-309.51	190.94
Sisma	-18.6	-272.29	186.08
Sisma	-18.8	-236.42	179.36
Sisma	-19	-202.25	170.86
Sisma	-19.2	-170.08	160.85
Sisma	-19.4	-140.12	149.78
Sisma	-19.6	-112.57	137.76
Sisma	-19.8	-87.61	124.82
Sisma	-20	-65.41	110.99
Sisma	-20.2	-46.15	96.28
Sisma	-20.4	-30.01	80.71
Sisma	-20.6	-17.16	64.28
Sisma	-20.8	-7.76	47
Sisma	-21	-1.98	28.87
Sisma	-21.2	0	9.91

6.4.4. Grafico Spostamento SISMICA STR - Stage: Finale



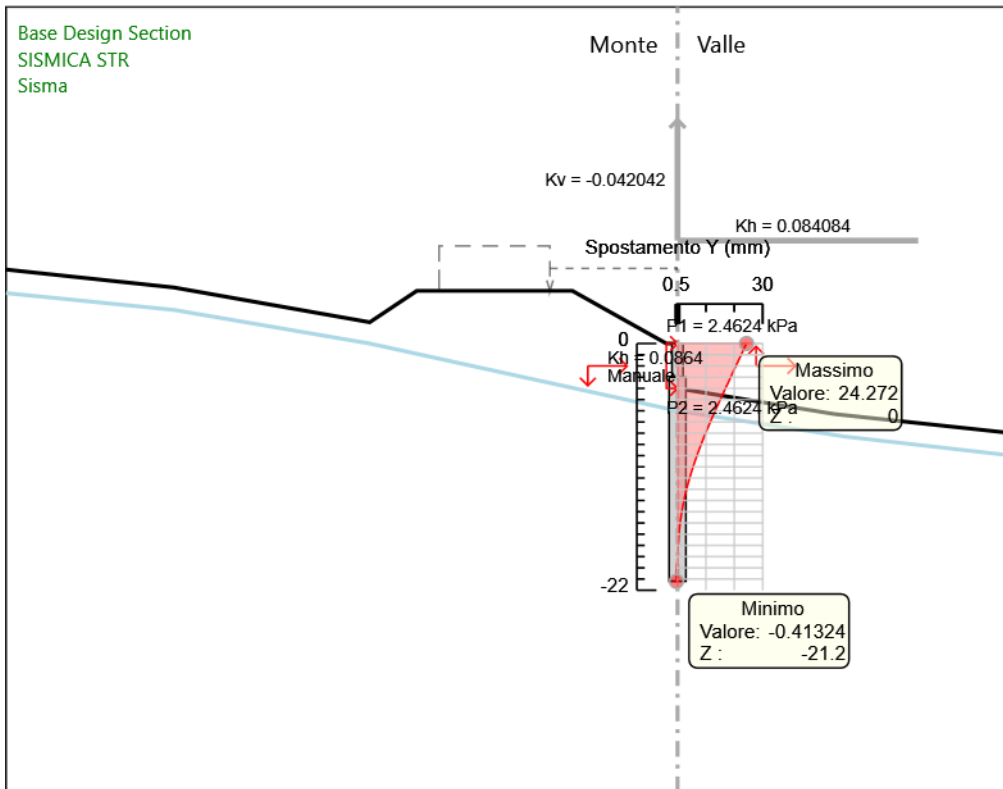
Design Assumption: SISMICA STR
Stage: Finale
Spostamento orizzontale

6.4.5. Grafico Spostamento SISMICA STR - Stage: Stage A



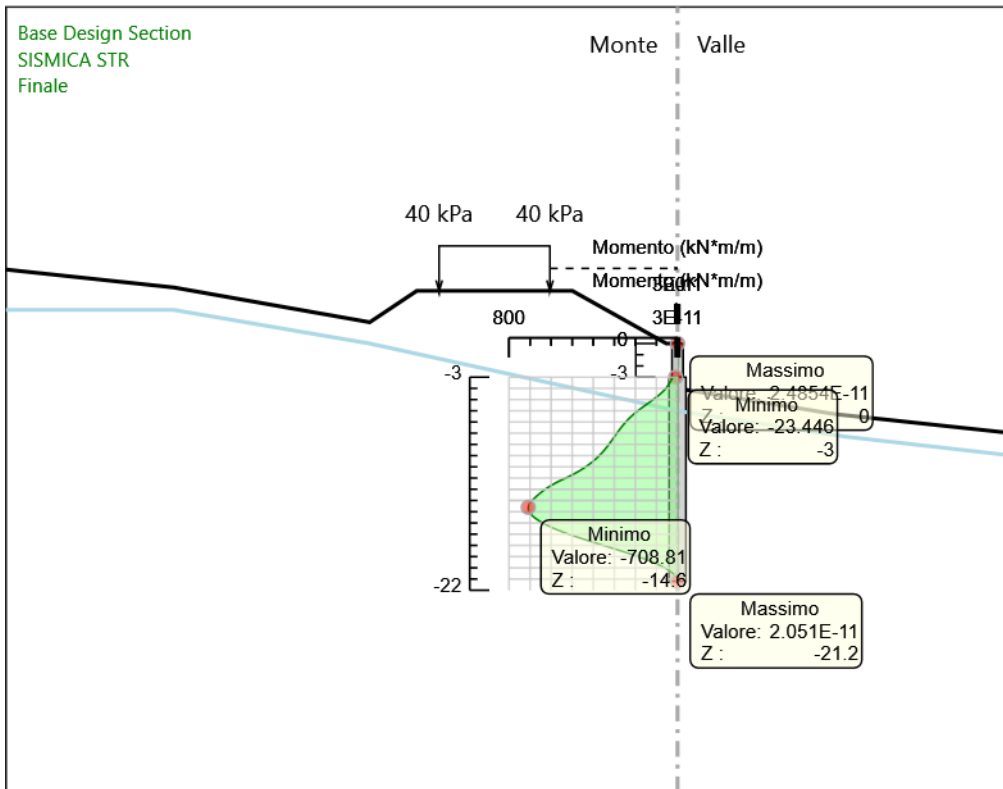
Design Assumption: SISMICA STR
Stage: Stage A
Spostamento orizzontale

6.4.6. Grafico Spostamento SISMICA STR - Stage: Sisma



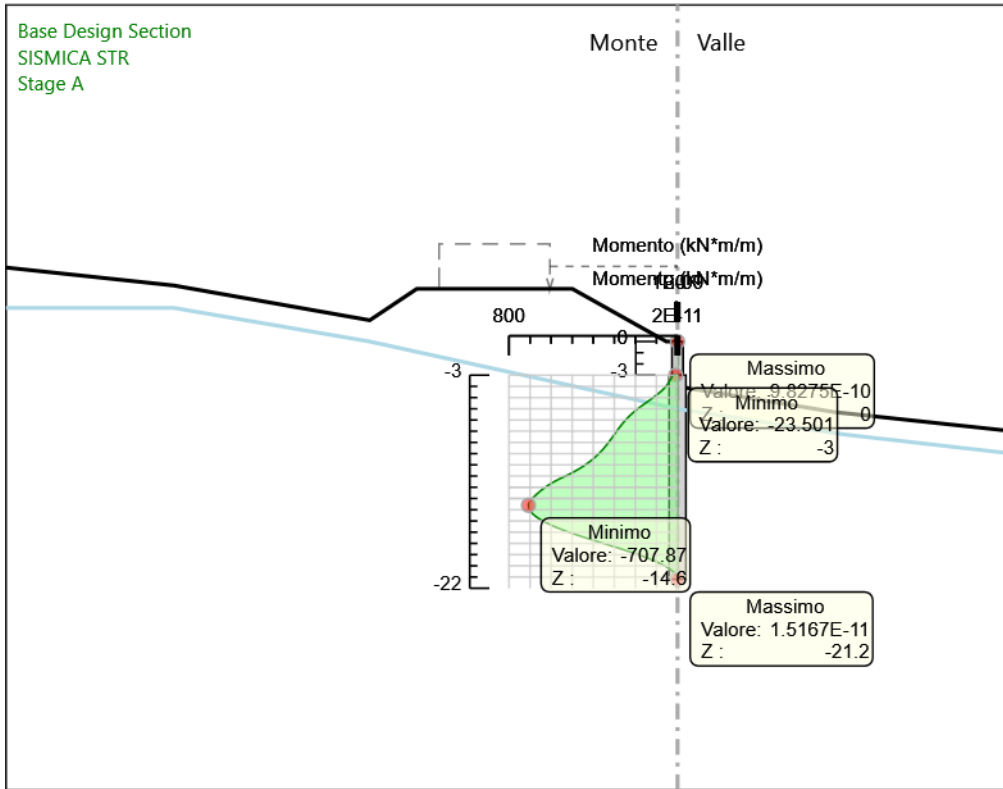
Design Assumption: SISMICA STR
Stage: Sisma
Spostamento orizzontale

6.4.7. Grafico Risultati Momento SISMICA STR - Stage: Finale



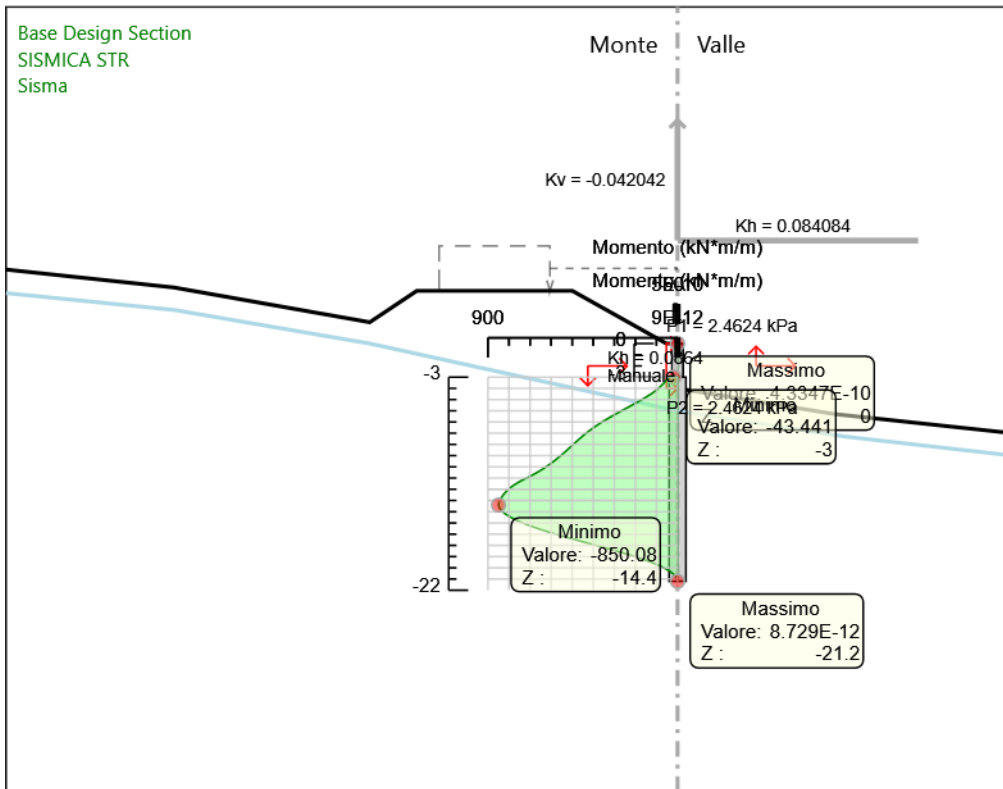
Design Assumption: SISMICA STR
Stage: Finale
Momento

6.4.8. Grafico Risultati Momento SISMICA STR - Stage: Stage A



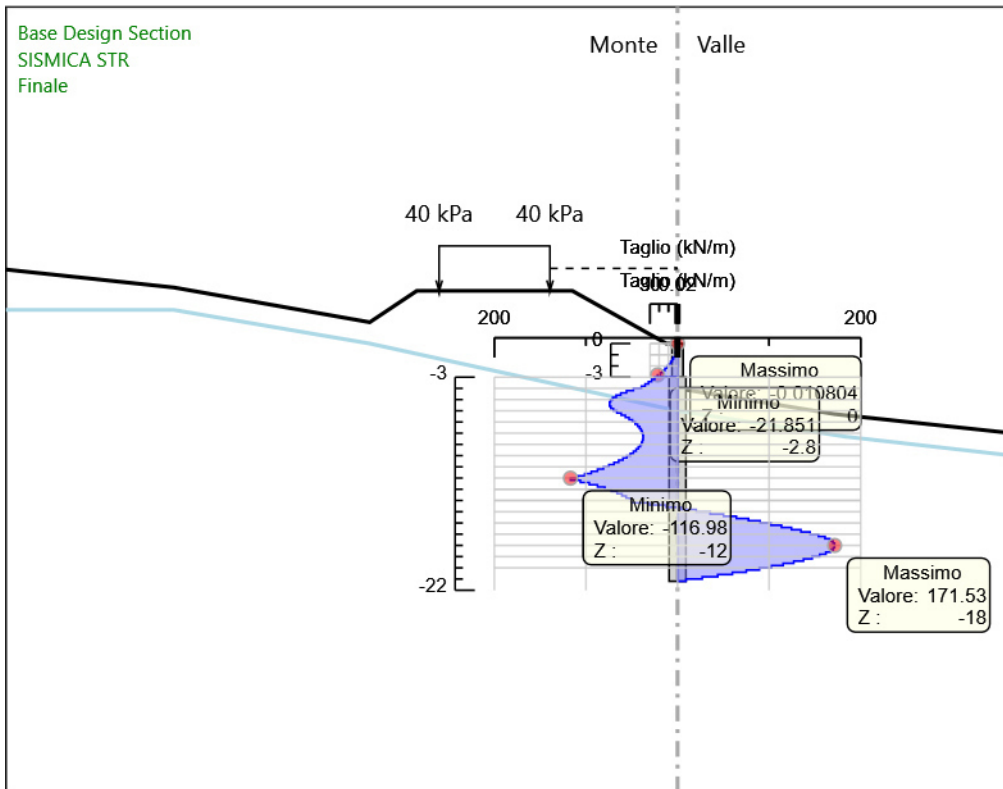
Design Assumption: SISMICA STR
Stage: Stage A
Momento

6.4.9. Grafico Risultati Momento SISMICA STR - Stage: Sisma



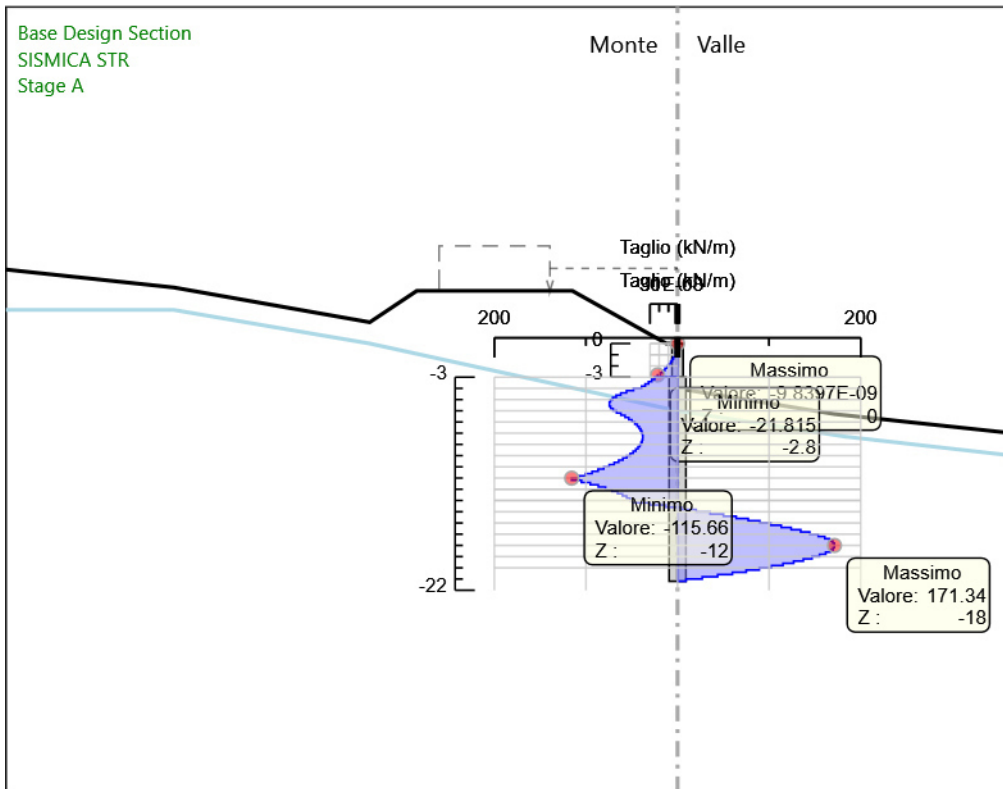
Design Assumption: SISMICA STR
Stage: Sisma
Momento

6.4.10. Grafico Risultati Taglio SISMICA STR - Stage: Finale



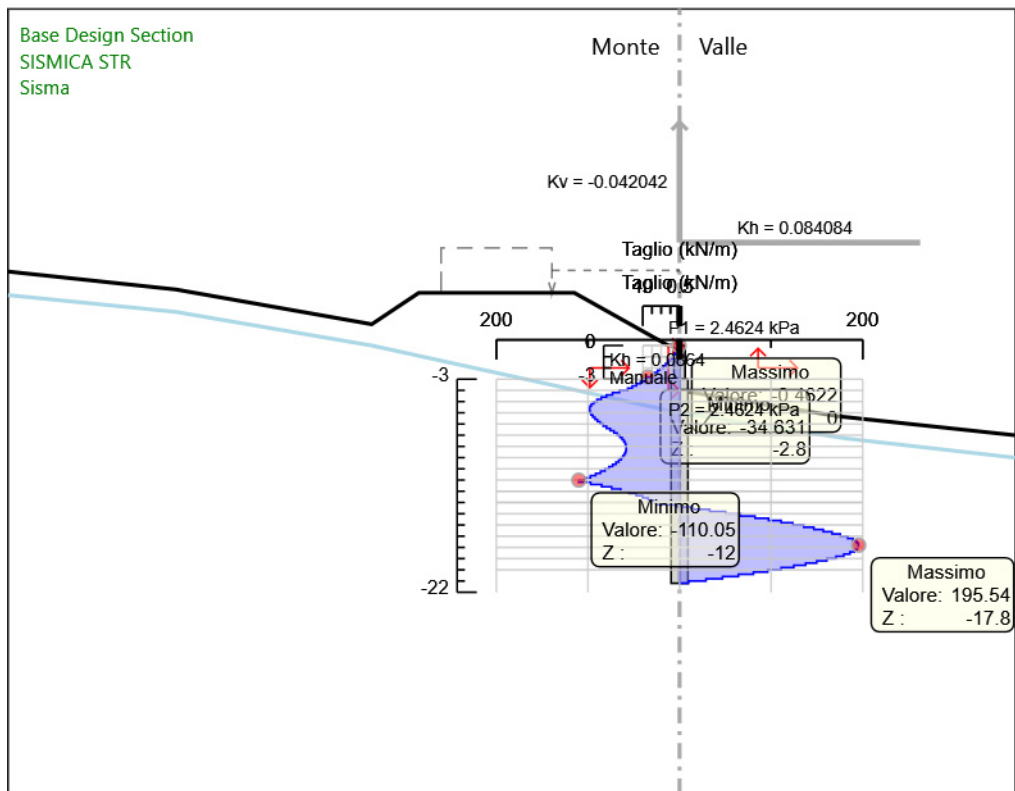
Design Assumption: SISMICA STR
Stage: Finale
Taglio

6.4.11. Grafico Risultati Taglio SISMICA STR - Stage: Stage A



Design Assumption: SISMICA STR
Stage: Stage A
Taglio

6.4.12. Grafico Risultati Taglio SISMICA STR - Stage: Sisma



Design Assumption: SISMICA STR
Stage: Sisma
Taglio

6.5. Risultati SISMICA GEO

6.5.1. Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: Finale

Design Assumption: SISMICA GEO Risultati Paratia Muro: LEFT			
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	0	0	-0.01
Finale	-0.2	0	-0.01
Finale	-0.2	0	-0.01
Finale	-0.4	-0.06	-0.31
Finale	-0.6	-0.24	-0.87
Finale	-0.8	-0.58	-1.71
Finale	-1	-1.14	-2.81
Finale	-1.2	-1.98	-4.17
Finale	-1.4	-3.14	-5.81
Finale	-1.6	-4.68	-7.72
Finale	-1.8	-6.66	-9.89
Finale	-2	-9.13	-12.33
Finale	-2.2	-12.14	-15.05
Finale	-2.4	-15.74	-18.03
Finale	-2.6	-20	-21.28
Finale	-2.8	-24.96	-24.8
Finale	-3	-30.67	-28.59

Design Assumption: SISMICA GEO Risultati Paratia Muro: LEFT			
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-3	-30.67	-32.65
Finale	-3.2	-37.2	-32.65
Finale	-3.4	-44.6	-36.97
Finale	-3.6	-52.91	-41.57
Finale	-3.8	-62.2	-46.44
Finale	-4	-72.51	-51.57
Finale	-4.2	-85.26	-63.73
Finale	-4.4	-100.29	-75.14
Finale	-4.6	-117.44	-85.78
Finale	-4.8	-136.58	-95.66
Finale	-5	-157.53	-104.78
Finale	-5.2	-180.16	-113.15
Finale	-5.4	-204.31	-120.76
Finale	-5.6	-229.83	-127.6
Finale	-5.8	-256.57	-133.69
Finale	-6	-284.38	-139.02
Finale	-6.2	-313.1	-143.61
Finale	-6.4	-342.64	-147.72
Finale	-6.6	-372.94	-151.47
Finale	-6.8	-403.91	-154.87
Finale	-7	-435.49	-157.92
Finale	-7.2	-467.61	-160.61
Finale	-7.4	-500.21	-162.96
Finale	-7.6	-533.2	-164.95
Finale	-7.8	-566.51	-166.59
Finale	-8	-600.09	-167.88
Finale	-8.2	-633.85	-168.81
Finale	-8.4	-667.73	-169.4
Finale	-8.6	-701.66	-169.63
Finale	-8.8	-735.56	-169.51
Finale	-9	-769.37	-169.03
Finale	-9.2	-803.01	-168.24
Finale	-9.4	-836.44	-167.12
Finale	-9.6	-869.57	-165.69
Finale	-9.8	-902.36	-163.93
Finale	-10	-934.73	-161.86
Finale	-10.2	-966.62	-159.46
Finale	-10.4	-997.97	-156.74
Finale	-10.6	-1028.75	-153.88
Finale	-10.8	-1059.15	-152.03
Finale	-11	-1089.39	-151.18
Finale	-11.2	-1119.65	-151.32
Finale	-11.4	-1150.14	-152.42
Finale	-11.6	-1181.03	-154.49
Finale	-11.8	-1212.53	-157.5

Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Finale	-12	-1244.82	-161.43
Finale	-12.2	-1278.08	-166.27
Finale	-12.4	-1308.13	-150.28
Finale	-12.6	-1334.89	-133.81
Finale	-12.8	-1358.27	-116.88
Finale	-13	-1378.16	-99.46
Finale	-13.2	-1394.48	-81.58
Finale	-13.4	-1407.12	-63.22
Finale	-13.6	-1416.31	-45.95
Finale	-13.8	-1422.48	-30.85
Finale	-14	-1426.05	-17.84
Finale	-14.2	-1427.42	-6.87
Finale	-14.4	-1422.02	27.05
Finale	-14.6	-1410.3	58.56
Finale	-14.8	-1392.76	87.74
Finale	-15	-1369.82	114.67
Finale	-15.2	-1341.94	139.43
Finale	-15.4	-1309.52	162.1
Finale	-15.6	-1272.97	182.74
Finale	-15.8	-1232.68	201.44
Finale	-16	-1189.03	218.26
Finale	-16.2	-1142.37	233.28
Finale	-16.4	-1093.06	246.56
Finale	-16.6	-1041.43	258.16
Finale	-16.8	-987.8	268.15
Finale	-17	-932.47	276.62
Finale	-17.2	-875.75	283.6
Finale	-17.4	-817.92	289.17
Finale	-17.6	-759.24	293.37
Finale	-17.8	-699.99	296.24
Finale	-18	-640.43	297.82
Finale	-18.2	-580.8	298.16
Finale	-18.4	-521.36	297.18
Finale	-18.6	-462.74	293.12
Finale	-18.8	-405.45	286.44
Finale	-19	-349.91	277.68
Finale	-19.2	-296.53	266.9
Finale	-19.4	-245.71	254.14
Finale	-19.6	-197.98	238.63
Finale	-19.8	-154.07	219.54
Finale	-20	-114.69	196.92
Finale	-20.2	-80.53	170.8
Finale	-20.4	-52.12	142.05
Finale	-20.6	-29.66	112.3
Finale	-20.8	-13.35	81.55
Finale	-21	-3.39	49.78
Finale	-21.2	0	16.95

6.5.2. Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: Stage A

Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	0	0	0
Stage A	-0.2	0	0
Stage A	-0.2	0	0
Stage A	-0.4	-0.06	-0.31
Stage A	-0.6	-0.24	-0.89
Stage A	-0.8	-0.58	-1.73
Stage A	-1	-1.15	-2.83
Stage A	-1.2	-1.99	-4.21
Stage A	-1.4	-3.16	-5.85
Stage A	-1.6	-4.71	-7.75
Stage A	-1.8	-6.7	-9.92
Stage A	-2	-9.17	-12.36
Stage A	-2.2	-12.18	-15.06
Stage A	-2.4	-15.78	-18.03
Stage A	-2.6	-20.04	-21.26
Stage A	-2.8	-24.99	-24.76
Stage A	-3	-30.69	-28.53

Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-3	-30.69	-32.56
Stage A	-3.2	-37.2	-32.56
Stage A	-3.4	-44.57	-36.85
Stage A	-3.6	-52.86	-41.42
Stage A	-3.8	-62.11	-46.25
Stage A	-4	-72.38	-51.34
Stage A	-4.2	-85.09	-63.57
Stage A	-4.4	-100.1	-75.03
Stage A	-4.6	-117.24	-85.73
Stage A	-4.8	-136.38	-95.67
Stage A	-5	-157.35	-104.84
Stage A	-5.2	-180	-113.26
Stage A	-5.4	-204.18	-120.91
Stage A	-5.6	-229.74	-127.8
Stage A	-5.8	-256.52	-133.93
Stage A	-6	-284.38	-139.29
Stage A	-6.2	-313.17	-143.92
Stage A	-6.4	-342.78	-148.05
Stage A	-6.6	-373.14	-151.83
Stage A	-6.8	-404.19	-155.25
Stage A	-7	-435.86	-158.32
Stage A	-7.2	-468.07	-161.04
Stage A	-7.4	-500.75	-163.4
Stage A	-7.6	-533.83	-165.4
Stage A	-7.8	-567.24	-167.06
Stage A	-8	-600.91	-168.35
Stage A	-8.2	-634.77	-169.29
Stage A	-8.4	-668.74	-169.88
Stage A	-8.6	-702.76	-170.1
Stage A	-8.8	-736.76	-169.98
Stage A	-9	-770.66	-169.49
Stage A	-9.2	-804.39	-168.68
Stage A	-9.4	-837.9	-167.53
Stage A	-9.6	-871.11	-166.05
Stage A	-9.8	-903.96	-164.24
Stage A	-10	-936.38	-162.09
Stage A	-10.2	-968.3	-159.61
Stage A	-10.4	-999.65	-156.79
Stage A	-10.6	-1030.42	-153.82
Stage A	-10.8	-1060.79	-151.85
Stage A	-11	-1090.96	-150.87
Stage A	-11.2	-1121.13	-150.86
Stage A	-11.4	-1151.5	-151.81
Stage A	-11.6	-1182.24	-153.71
Stage A	-11.8	-1213.54	-156.53
Stage A	-12	-1245.6	-160.27
Stage A	-12.2	-1278.58	-164.91
Stage A	-12.4	-1308.39	-149.06

Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Stage A	-12.6	-1334.94	-132.72
Stage A	-12.8	-1358.11	-115.89
Stage A	-13	-1377.83	-98.57
Stage A	-13.2	-1393.98	-80.76
Stage A	-13.4	-1406.47	-62.46
Stage A	-13.6	-1415.52	-45.24
Stage A	-13.8	-1421.55	-30.17
Stage A	-14	-1424.99	-17.18
Stage A	-14.2	-1426.23	-6.22
Stage A	-14.4	-1420.72	27.58
Stage A	-14.6	-1408.92	58.97
Stage A	-14.8	-1391.31	88.05
Stage A	-15	-1368.33	114.9
Stage A	-15.2	-1340.41	139.58
Stage A	-15.4	-1307.98	162.19
Stage A	-15.6	-1271.42	182.78
Stage A	-15.8	-1231.13	201.44
Stage A	-16	-1187.49	218.23
Stage A	-16.2	-1140.84	233.22
Stage A	-16.4	-1091.54	246.49
Stage A	-16.6	-1039.93	258.09
Stage A	-16.8	-986.31	268.08
Stage A	-17	-931	276.54
Stage A	-17.2	-874.3	283.53
Stage A	-17.4	-816.48	289.09
Stage A	-17.6	-757.83	293.27
Stage A	-17.8	-698.6	296.12
Stage A	-18	-639.06	297.68
Stage A	-18.2	-579.46	298
Stage A	-18.4	-520.07	296.98
Stage A	-18.6	-461.49	292.87
Stage A	-18.8	-404.27	286.14
Stage A	-19	-348.8	277.33
Stage A	-19.2	-295.5	266.49
Stage A	-19.4	-244.77	253.66
Stage A	-19.6	-197.16	238.07
Stage A	-19.8	-153.38	218.89
Stage A	-20	-114.14	196.17
Stage A	-20.2	-80.16	169.95
Stage A	-20.4	-51.88	141.36
Stage A	-20.6	-29.53	111.77
Stage A	-20.8	-13.29	81.19
Stage A	-21	-3.38	49.57
Stage A	-21.2	0	16.88

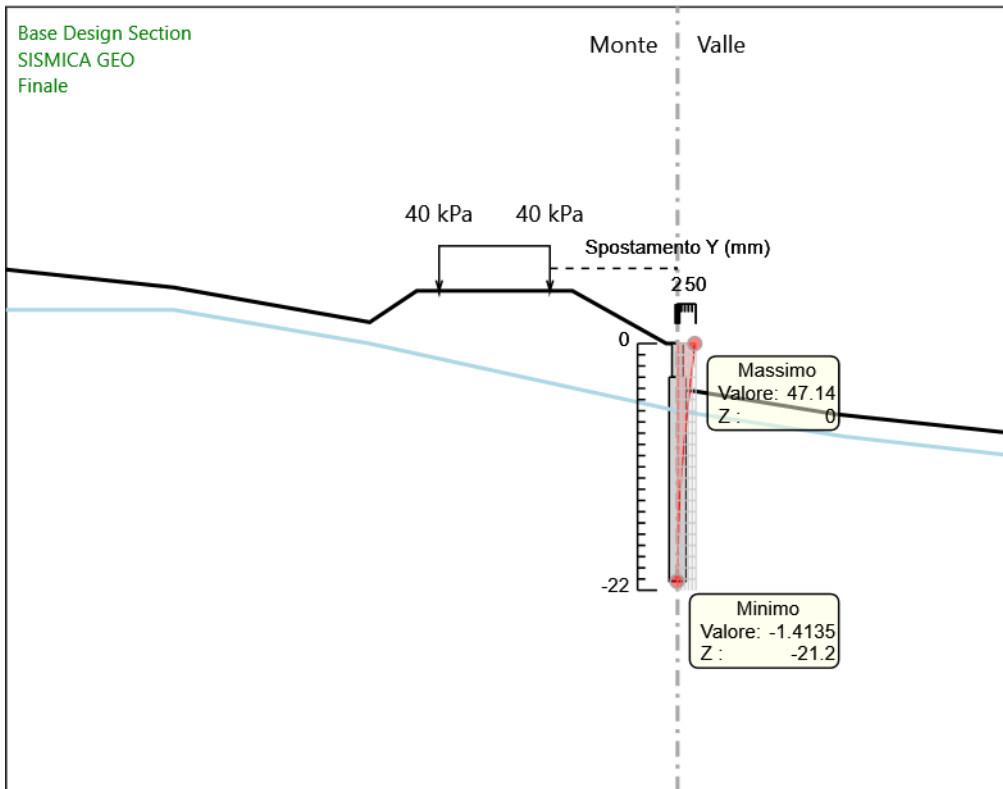
6.5.3. Tabella Risultati Paratia SISMICA GEO - Left Wall - Stage: Sisma

Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	0	0	-0.46
Sisma	-0.2	-0.09	-0.46
Sisma	-0.2	-0.09	-0.46
Sisma	-0.4	-0.42	-1.65
Sisma	-0.6	-1.04	-3.1
Sisma	-0.8	-2.01	-4.82
Sisma	-1	-3.37	-6.8
Sisma	-1.2	-5.18	-9.05
Sisma	-1.4	-7.49	-11.56
Sisma	-1.6	-10.36	-14.34
Sisma	-1.8	-13.84	-17.38
Sisma	-2	-17.97	-20.68
Sisma	-2.2	-22.82	-24.25
Sisma	-2.4	-28.44	-28.09
Sisma	-2.6	-34.88	-32.18
Sisma	-2.8	-42.19	-36.55
Sisma	-3	-50.42	-41.17

Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-3	-50.42	-46.07
Sisma	-3.2	-59.64	-46.07
Sisma	-3.4	-69.89	-51.25
Sisma	-3.6	-81.22	-56.68
Sisma	-3.8	-93.7	-62.39
Sisma	-4	-107.37	-68.35
Sisma	-4.2	-123.52	-80.75
Sisma	-4.4	-141.95	-92.16
Sisma	-4.6	-162.56	-103.06
Sisma	-4.8	-185.25	-113.43
Sisma	-5	-209.91	-123.29
Sisma	-5.2	-236.43	-132.63
Sisma	-5.4	-264.72	-141.45
Sisma	-5.6	-294.67	-149.75
Sisma	-5.8	-326.18	-157.53
Sisma	-6	-359.14	-164.8
Sisma	-6.2	-393.46	-171.58
Sisma	-6.4	-429.08	-178.13
Sisma	-6.6	-466	-184.61
Sisma	-6.8	-504.21	-191.02
Sisma	-7	-543.68	-197.37
Sisma	-7.2	-584.41	-203.64
Sisma	-7.4	-626.38	-209.85
Sisma	-7.6	-669.58	-215.99
Sisma	-7.8	-713.99	-222.06
Sisma	-8	-759.6	-228.06
Sisma	-8.2	-806.4	-233.99
Sisma	-8.4	-854.37	-239.86
Sisma	-8.6	-903.5	-245.65
Sisma	-8.8	-953.78	-251.37
Sisma	-9	-1005.18	-257.02
Sisma	-9.2	-1057.7	-262.6
Sisma	-9.4	-1111.32	-268.11
Sisma	-9.6	-1166.03	-273.55
Sisma	-9.8	-1221.82	-278.92
Sisma	-10	-1278.66	-284.22
Sisma	-10.2	-1336.55	-289.45
Sisma	-10.4	-1395.47	-294.6
Sisma	-10.6	-1455.41	-299.69
Sisma	-10.8	-1516.35	-304.71
Sisma	-11	-1578.28	-309.65
Sisma	-11.2	-1641.18	-314.52
Sisma	-11.4	-1705.05	-319.32
Sisma	-11.6	-1769.86	-324.05
Sisma	-11.8	-1835.6	-328.71
Sisma	-12	-1902.26	-333.3
Sisma	-12.2	-1969.82	-337.82
Sisma	-12.4	-2036.06	-331.17

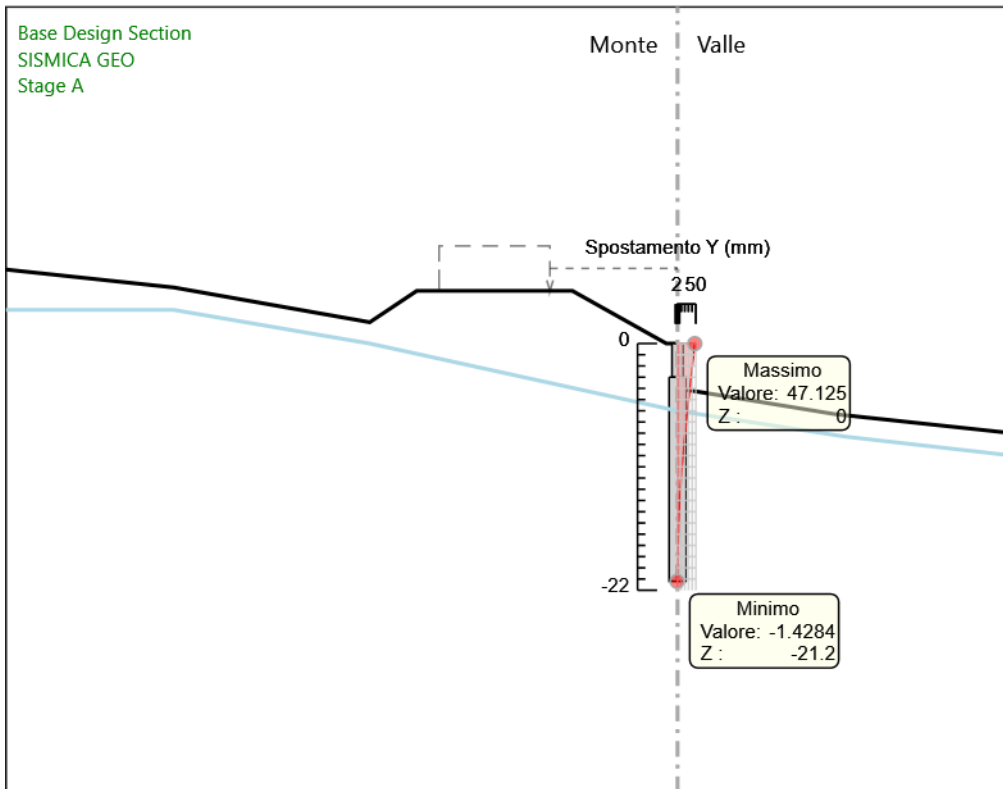
Design Assumption: SISMICA GEO Risultati Paratia		Muro: LEFT	
Stage	Z (m)	Momento (kN*m/m)	Taglio (kN/m)
Sisma	-12.6	-2100.92	-324.3
Sisma	-12.8	-2164.36	-317.21
Sisma	-13	-2226.34	-309.9
Sisma	-13.2	-2286.81	-302.36
Sisma	-13.4	-2345.73	-294.61
Sisma	-13.6	-2403.06	-286.63
Sisma	-13.8	-2458.74	-278.43
Sisma	-14	-2512.75	-270.01
Sisma	-14.2	-2565.02	-261.37
Sisma	-14.4	-2608.62	-218.02
Sisma	-14.6	-2643.48	-174.29
Sisma	-14.8	-2669.52	-130.18
Sisma	-15	-2686.66	-85.69
Sisma	-15.2	-2694.82	-40.82
Sisma	-15.4	-2693.94	4.43
Sisma	-15.6	-2683.93	50.06
Sisma	-15.8	-2664.71	96.08
Sisma	-16	-2636.22	142.47
Sisma	-16.2	-2598.36	189.25
Sisma	-16.4	-2551.08	236.42
Sisma	-16.6	-2494.29	283.96
Sisma	-16.8	-2427.91	331.89
Sisma	-17	-2351.87	380.21
Sisma	-17.2	-2266.09	428.91
Sisma	-17.4	-2170.49	477.99
Sisma	-17.6	-2065	527.45
Sisma	-17.8	-1949.53	577.31
Sisma	-18	-1824.02	627.54
Sisma	-18.2	-1689.59	672.18
Sisma	-18.4	-1548.11	707.37
Sisma	-18.6	-1401.47	733.2
Sisma	-18.8	-1251.52	749.75
Sisma	-19	-1100.1	757.11
Sisma	-19.2	-948.37	758.65
Sisma	-19.4	-797.18	755.96
Sisma	-19.6	-651.29	729.41
Sisma	-19.8	-514.87	682.13
Sisma	-20	-390.17	623.51
Sisma	-20.2	-279.29	554.38
Sisma	-20.4	-184.17	475.57
Sisma	-20.6	-106.75	387.1
Sisma	-20.8	-48.96	288.97
Sisma	-21	-12.72	181.16
Sisma	-21.2	0	63.63

6.5.4. Grafico Spostamento SISMICA GEO - Stage: Finale



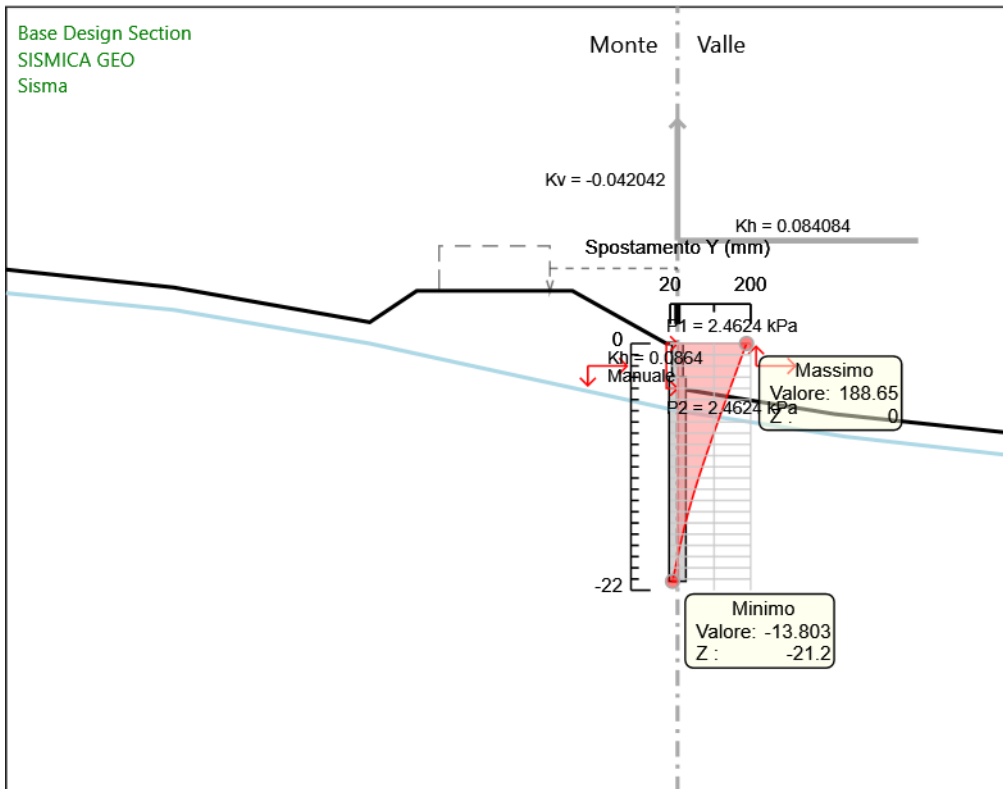
Design Assumption: SISMICA GEO
Stage: Finale
Spostamento orizzontale

6.5.5. Grafico Spostamento SISMICA GEO - Stage: Stage A



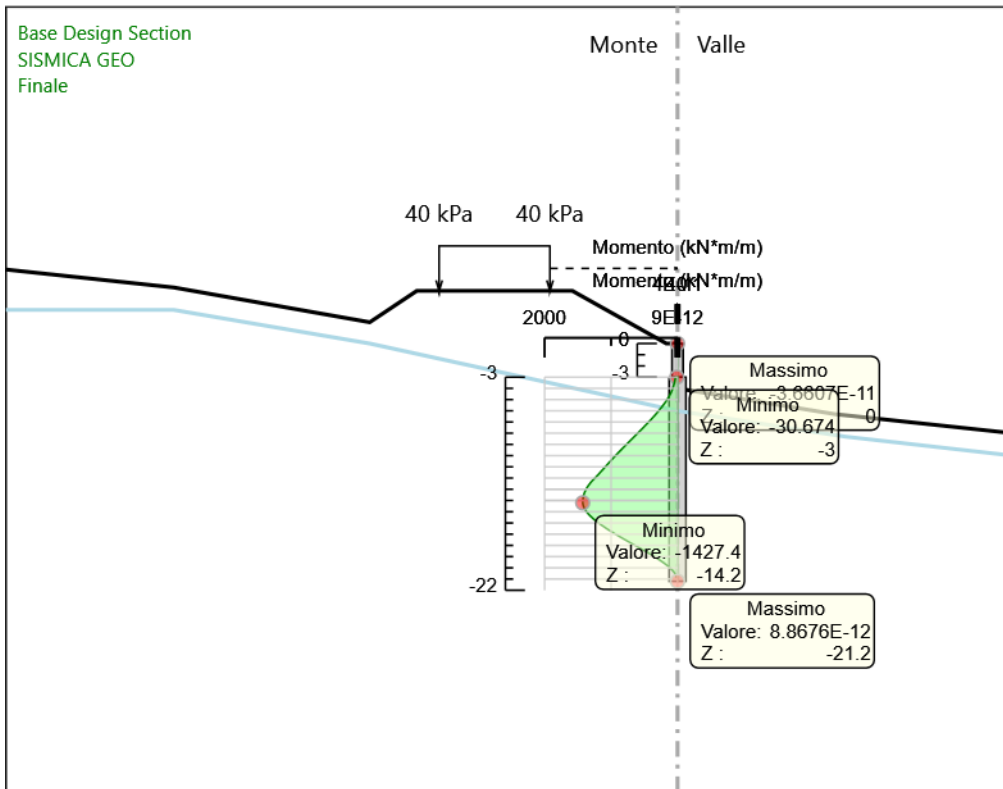
Design Assumption: SISMICA GEO
Stage: Stage A
Spostamento orizzontale

6.5.6. Grafico Spostamento SISMICA GEO - Stage: Sisma



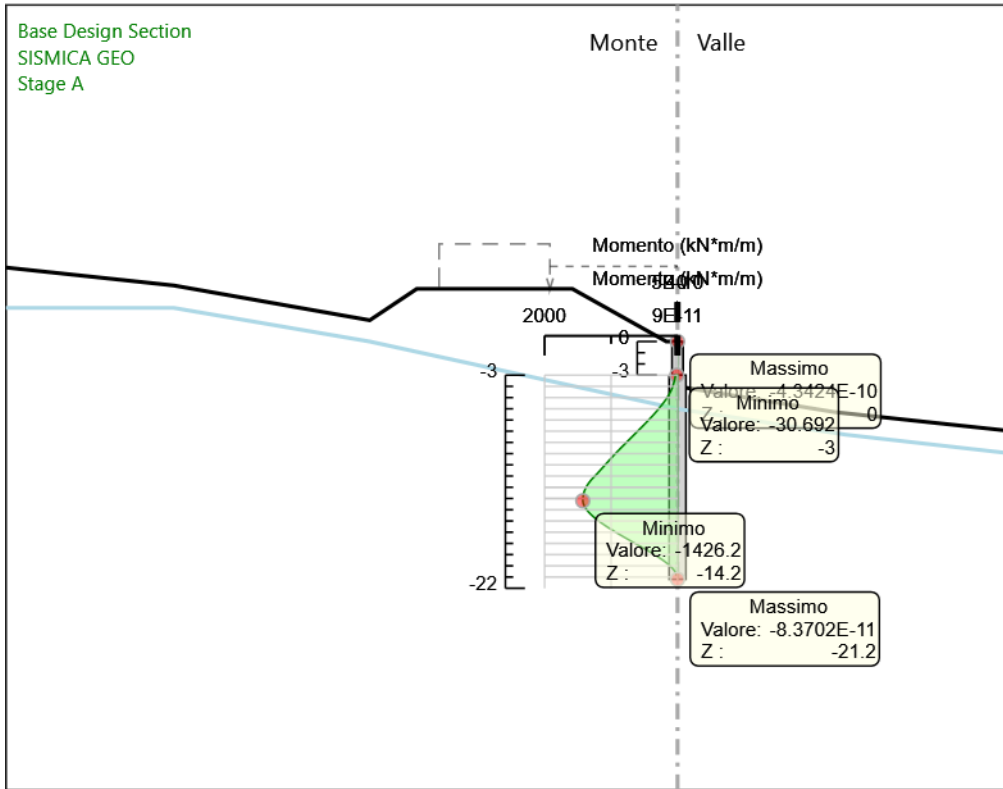
Design Assumption: SISMICA GEO
Stage: Sisma
Spostamento orizzontale

6.5.7. Grafico Risultati Momento SISMICA GEO - Stage: Finale



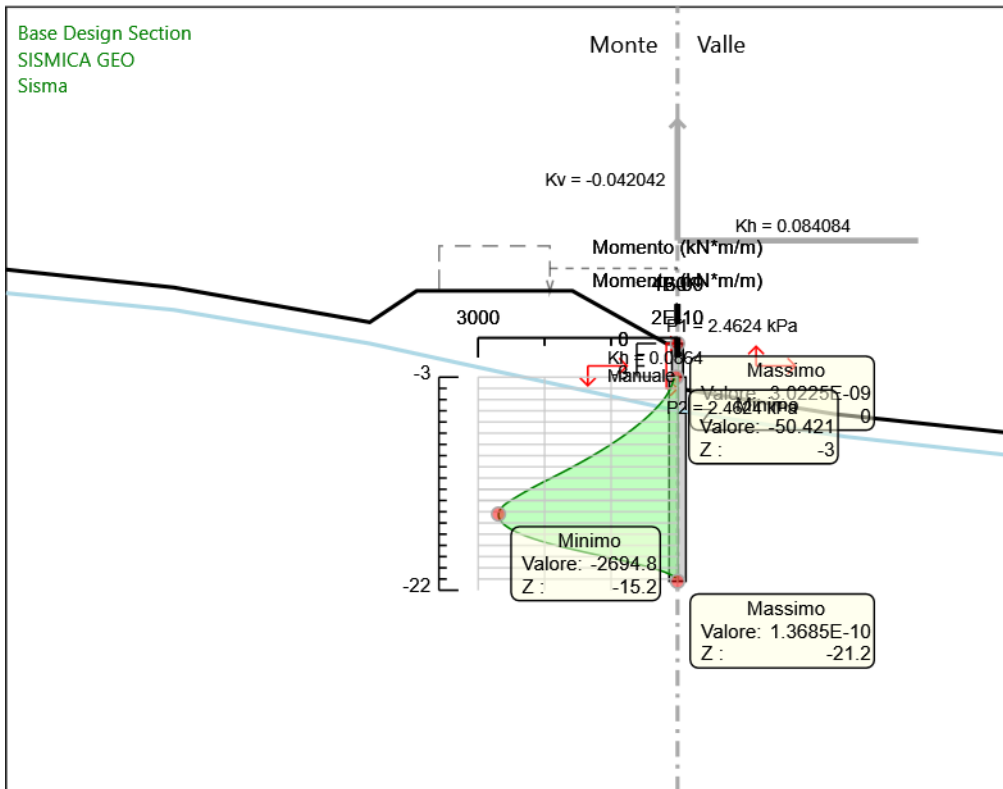
Design Assumption: SISMICA GEO
 Stage: Finale
 Momento

6.5.8. Grafico Risultati Momento SISMICA GEO - Stage: Stage A



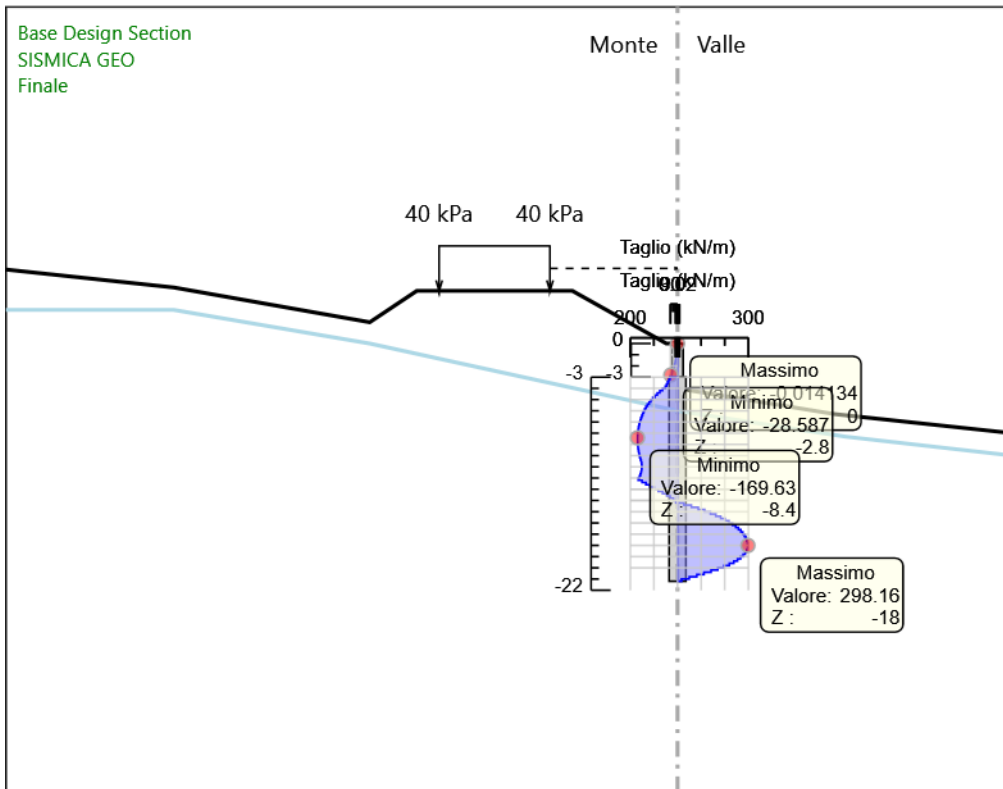
Design Assumption: SISMICA GEO
Stage: Stage A
Momento

6.5.9. Grafico Risultati Momento SISMICA GEO - Stage: Sisma



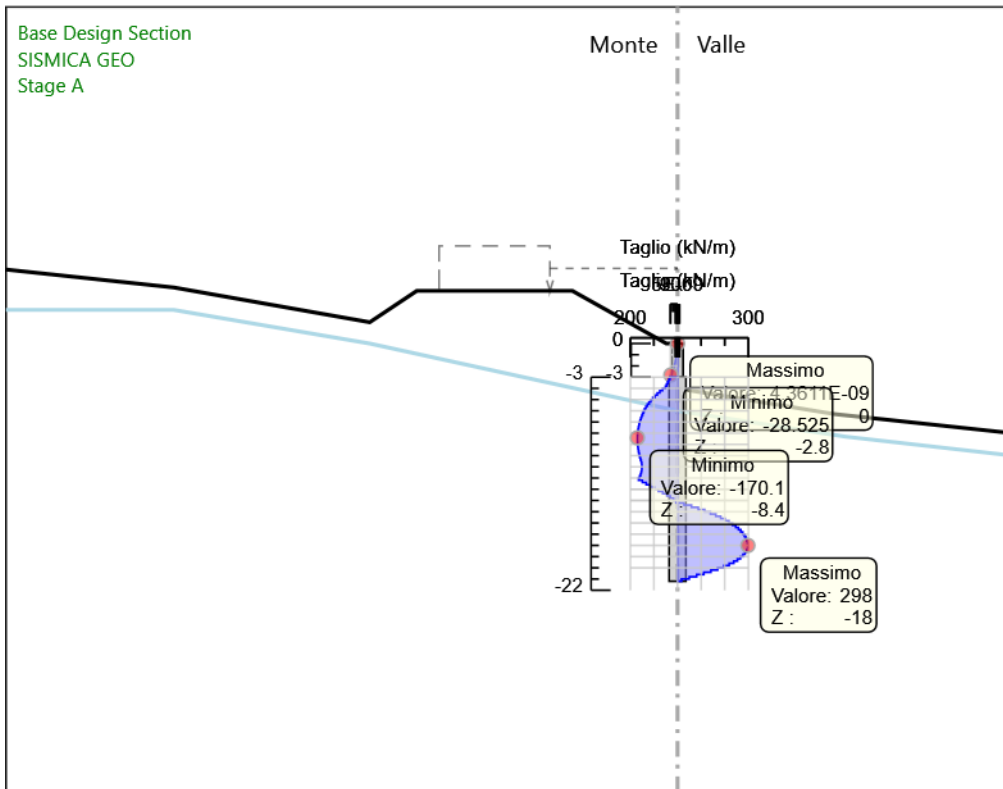
Design Assumption: SISMICA GEO
Stage: Sisma
Momento

6.5.10. Grafico Risultati Taglio SISMICA GEO - Stage: Finale



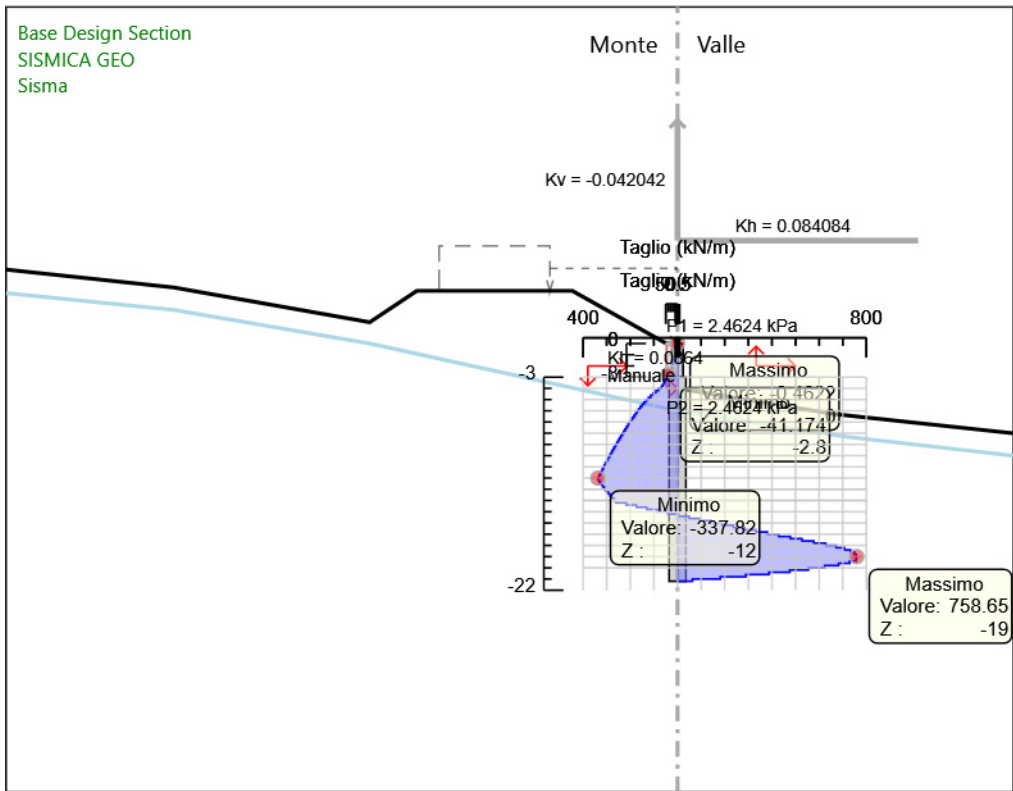
Design Assumption: SISMICA GEO
Stage: Finale
Taglio

6.5.11. Grafico Risultati Taglio SISMICA GEO - Stage: Stage A



Design Assumption: SISMICA GEO
Stage: Stage A
Taglio

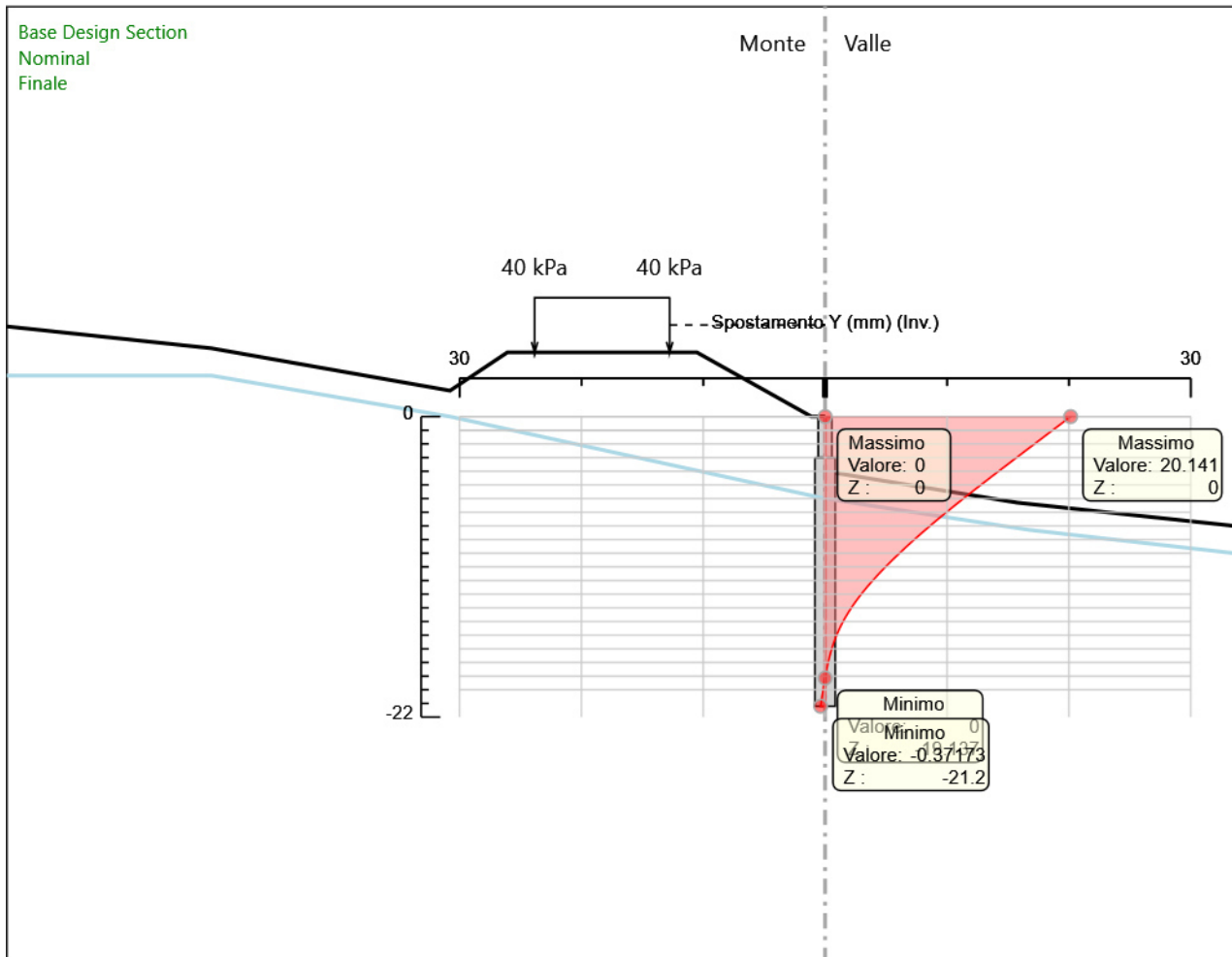
6.5.12. Grafico Risultati Taglio SISMICA GEO - Stage: Sisma



Design Assumption: SISMICA GEO
Stage: Sisma
Taglio

7. Descrizione sintetica dei risultati delle Design Assumption (Inviluppi)

7.1. Grafico Inviluppi Spostamento



Spostamento

7.2. Tabella Involuppi Momento WallElement

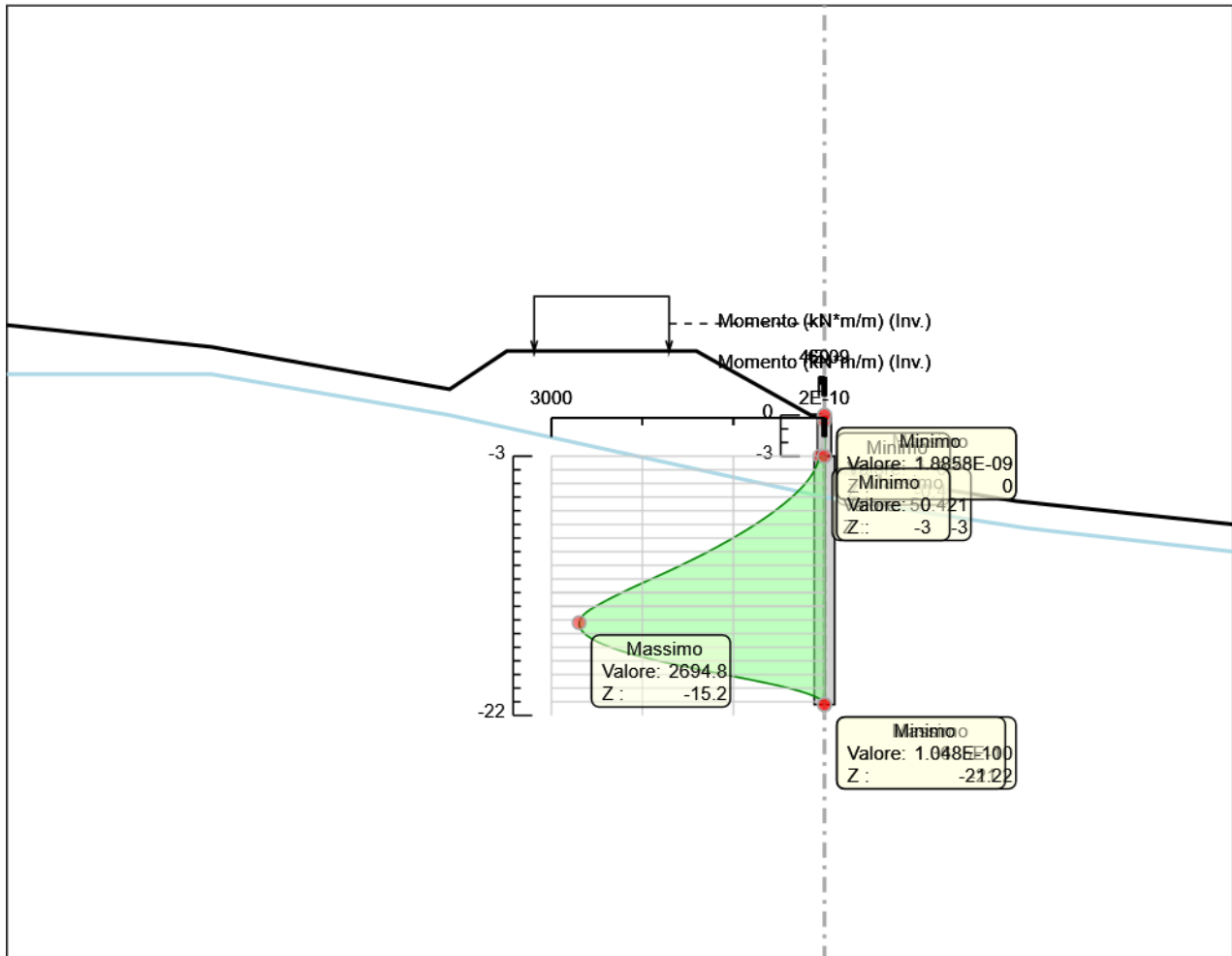
Selected Design Assumptions	Involuppi: Momento	Muro: WallElement
Z (m)	Lato sinistro (kN*m/m)	Lato destro (kN*m/m)
0	0	0
-0.2	0.092	0
-0.4	0.423	0
-0.6	1.044	0
-0.8	2.008	0
-1	3.369	0
-1.2	5.179	0
-1.4	7.492	0
-1.6	10.359	0
-1.8	13.835	0
-2	17.972	0
-2.2	22.822	0
-2.4	28.44	0
-2.6	34.876	0
-2.8	42.186	0
-3	50.421	0

7.3. Tabella Involuppi Momento WallElement_New

Selected Design Assumptions		
Z (m)	Involuppi: Momento Lato sinistro (kN*m/m)	Muro: WallElement_New Lato destro (kN*m/m)
-3	50.421	0
-3.2	59.636	0
-3.4	69.885	0
-3.6	81.222	0
-3.8	93.699	0
-4	107.37	0
-4.2	123.521	0
-4.4	141.954	0
-4.6	162.565	0
-4.8	185.251	0
-5	209.909	0
-5.2	236.434	0
-5.4	264.724	0
-5.6	294.673	0
-5.8	326.18	0
-6	359.141	0
-6.2	393.456	0
-6.4	429.082	0
-6.6	466.003	0
-6.8	504.207	0
-7	543.68	0
-7.2	584.409	0
-7.4	626.38	0
-7.6	669.578	0
-7.8	713.99	0
-8	759.603	0
-8.2	806.402	0
-8.4	854.373	0
-8.6	903.502	0
-8.8	953.776	0
-9	1005.179	0
-9.2	1057.699	0
-9.4	1111.322	0
-9.6	1166.032	0
-9.8	1221.816	0
-10	1278.66	0
-10.2	1336.548	0
-10.4	1395.469	0
-10.6	1455.407	0
-10.8	1516.348	0
-11	1578.278	0
-11.2	1641.182	0
-11.4	1705.047	0
-11.6	1769.858	0
-11.8	1835.6	0
-12	1902.26	0
-12.2	1969.823	0
-12.4	2036.057	0
-12.6	2100.917	0
-12.8	2164.358	0
-13	2226.338	0
-13.2	2286.81	0
-13.4	2345.732	0
-13.6	2403.058	0
-13.8	2458.745	0
-14	2512.747	0
-14.2	2565.021	0
-14.4	2608.625	0
-14.6	2643.484	0
-14.8	2669.52	0
-15	2686.659	0
-15.2	2694.824	0
-15.4	2693.938	0
-15.6	2683.926	0
-15.8	2664.71	0
-16	2636.216	0
-16.2	2598.365	0

Selected Design Assumptions	Inviluppi: Momento	Muro: WallElement_New
Z (m)	Lato sinistro (kN*m/m)	Lato destro (kN*m/m)
-16.4	2551.082	0
-16.6	2494.289	0
-16.8	2427.91	0
-17	2351.869	0
-17.2	2266.088	0
-17.4	2170.49	0
-17.6	2064.999	0
-17.8	1949.532	0
-18	1824.023	0
-18.2	1689.587	0
-18.4	1548.113	0
-18.6	1401.473	0
-18.8	1251.523	0
-19	1100.1	0
-19.2	948.37	0
-19.4	797.177	0
-19.6	651.294	0
-19.8	514.868	0
-20	390.166	0
-20.2	279.29	0
-20.4	184.171	0
-20.6	106.751	0
-20.8	48.956	0
-21	12.724	0
-21.2	0	0

7.4. Grafico Involuppi Momento



Momento

7.5. Tabella Involuppi Taglio WallElement

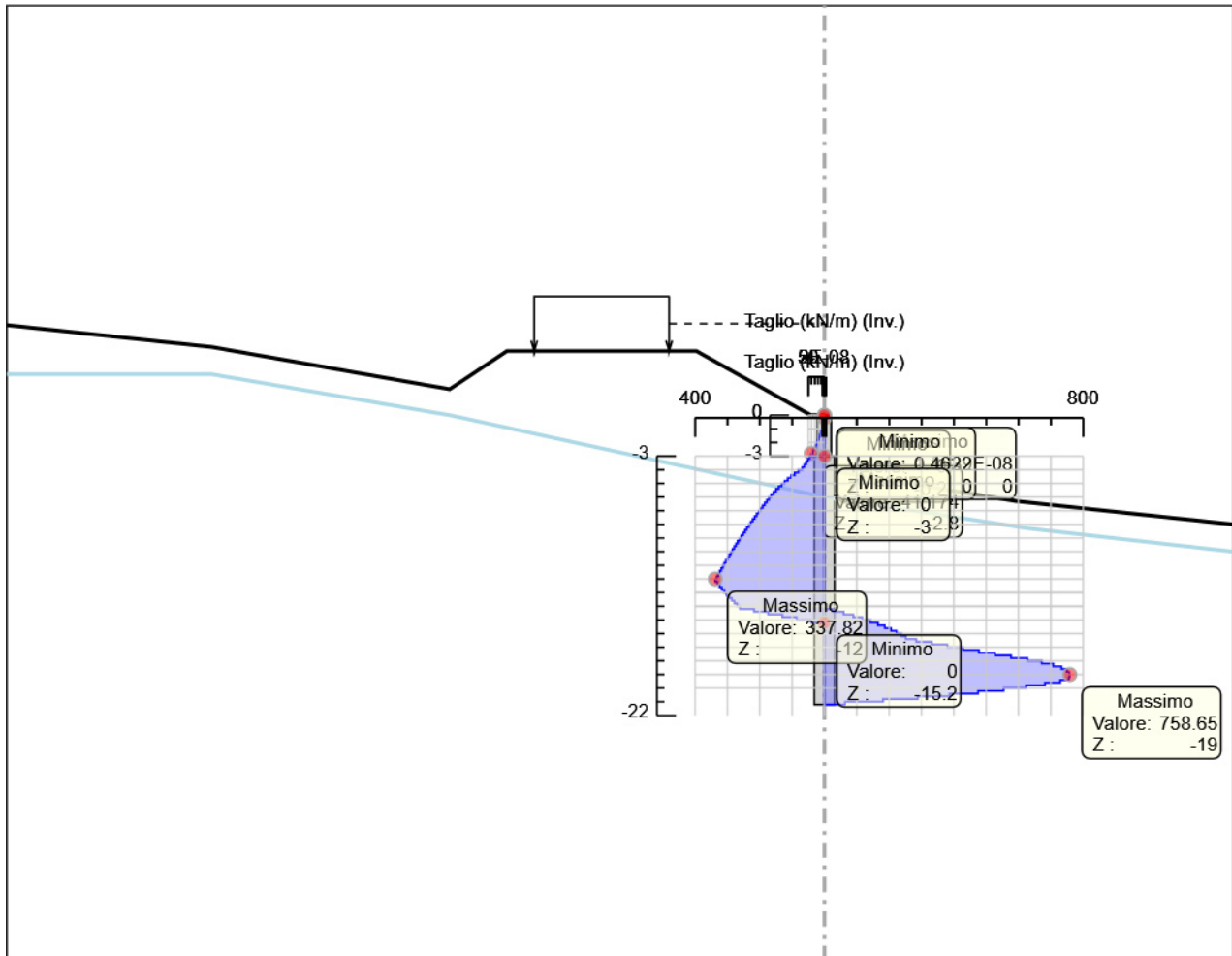
Selected Design Assumptions	Involuppi: Taglio	Muro: WallElement
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
0	0.462	0
-0.2	1.651	0
-0.4	3.104	0
-0.6	4.822	0
-0.8	6.805	0
-1	9.051	0
-1.2	11.563	0
-1.4	14.338	0
-1.6	17.379	0
-1.8	20.683	0
-2	24.253	0
-2.2	28.086	0
-2.4	32.184	0
-2.6	36.547	0
-2.8	41.174	0
-3	41.174	0

7.6. Tabella Involuppi Taglio WallElement_New

Selected Design Assumptions	Inviluppi: Taglio	Muro: WallElement_New
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
-3	46.074	0
-3.2	51.247	0
-3.4	56.685	0
-3.6	62.387	0
-3.8	68.354	0
-4	80.753	0
-4.2	92.164	0
-4.4	103.057	0
-4.6	113.431	0
-4.8	123.288	0
-5	132.627	0
-5.2	141.448	0
-5.4	149.75	0
-5.6	157.535	0
-5.8	164.802	0
-6	171.578	0
-6.2	178.126	0
-6.4	184.608	0
-6.6	191.021	0
-6.8	197.367	0
-7	203.644	0
-7.2	209.852	0
-7.4	215.992	0
-7.6	222.062	0
-7.8	228.063	0
-8	233.994	0
-8.2	239.855	0
-8.4	245.647	0
-8.6	251.368	0
-8.8	257.02	0
-9	262.601	0
-9.2	268.111	0
-9.4	273.551	0
-9.6	278.921	0
-9.8	284.219	0
-10	289.447	0
-10.2	294.604	0
-10.4	299.69	0
-10.6	304.705	0
-10.8	309.649	0
-11	314.522	0
-11.2	319.323	0
-11.4	324.054	0
-11.6	328.713	0
-11.8	333.3	0
-12	337.816	0
-12.2	337.816	0
-12.4	331.168	0
-12.6	324.299	0
-12.8	317.208	0
-13	309.896	0
-13.2	302.363	0
-13.4	294.608	0
-13.6	286.631	0
-13.8	278.433	0
-14	270.012	0
-14.2	261.37	27.575
-14.4	218.021	59.544
-14.6	174.292	89.395
-14.8	130.183	116.94
-15	85.694	142.259
-15.2	40.823	165.43
-15.4	0	186.528
-15.6	0	205.632
-15.8	0	222.847
-16	0	238.194
-16.2	0	251.742

Selected Design Assumptions	Inviluppi: Taglio	Muro: WallElement_New
Z (m)	Lato sinistro (kN/m)	Lato destro (kN/m)
-16.4	0	283.964
-16.6	0	331.894
-16.8	0	380.208
-17	0	428.906
-17.2	0	477.988
-17.4	0	527.455
-17.6	0	577.306
-17.8	0	627.543
-18	0	672.183
-18.2	0	707.37
-18.4	0	733.197
-18.6	0	749.753
-18.8	0	757.114
-19	0	758.653
-19.2	0	758.653
-19.4	0	755.965
-19.6	0	729.415
-19.8	0	682.13
-20	0	623.507
-20.2	0	554.381
-20.4	0	475.574
-20.6	0	387.1
-20.8	0	288.972
-21	0	181.159
-21.2	0	63.626

7.7. Grafico Involuppi Taglio



Taglio

7.8. Involuppo Spinta Reale Efficace / Spinta Passiva

Design Assumption Stage	Muro	Lato	Involuppo Spinta Reale Efficace / Spinta Passiva %
SISMICA GEO	Sisma Left Wall	LEFT	20.21
SISMICA GEO	Sisma Left Wall	RIGHT	72.89

7.9. Involuppo Spinta Reale Efficace / Spinta Attiva

Design Assumption	Stage	Muro	Lato	Involuppo Spinta Reale Efficace / Spinta Attiva %
A2+M2+R1	Finale	Left Wall	LEFT	103.75
SISMICA GEO	Stage A	Left Wall	RIGHT	757.71

8. Allegati

8.1. Design Assumption : Nominal - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal
* Time:venerdi 28 gennaio 2022 15:34:57
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_36 0 -21.2 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_36 -21.2 0 1 0
SOIL 0_R LeftWall_36 -21.2 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Rilevato_76031_14_L_0)
*
LDATA Rilevato_76031_14_L_0 15 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 35 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 40000 40000
ENDL
*
* Soil Profile (Ala_76024_15_L_0)
*
LDATA Ala_76024_15_L_0 -4 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 2 25 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 30000 90000
ENDL
*
* Soil Profile (Salt_175_16_L_0)
*
LDATA Salt_175_16_L_0 -12.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 20.5 10.5 10
PERMEABILITY 1E-05
RESISTANCE 10 27 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 1.03E+05 3.09E+05
ENDL
*
* Soil Profile (Pa_37608_76032_L_0)
*
LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 22.5 12.5 10
PERMEABILITY 1E-05
RESISTANCE 50 27 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 1.35E+05 4.05E+05
ENDL

* 5: Defining structural materials
* Steel material: 114 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_114 2.06E+08
* Concrete material: 112 Name=C32/40 E=33345800 kPa
MATERIAL C3240_112 3.3346E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
** rev 2021 and later
BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0
```

* 6.2: Supports

* 6.3: Strips

STRIP LeftWall_36 1 1 11.4 9.9 4.7 40 45

* 7: Defining Steps

```
STEP Finale_40504
CHANGE Rilevato_76031_14_L_0 U-FRICT=35 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-FRICT=35 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KA=0.266 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KP=9.735 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KA=0.235 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KP=5.879 LeftWall_36
CHANGE Ala_76024_15_L_0 U-FRICT=25 LeftWall_36
CHANGE Ala_76024_15_L_0 D-FRICT=25 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KA=0.689 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KP=4.351 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KA=0.322 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KP=2.38 LeftWall_36
CHANGE Salt_175_16_L_0 U-FRICT=27 LeftWall_36
CHANGE Salt_175_16_L_0 D-FRICT=27 LeftWall_36
CHANGE Salt_175_16_L_0 U-KA=0.557 LeftWall_36
CHANGE Salt_175_16_L_0 U-KP=4.793 LeftWall_36
CHANGE Salt_175_16_L_0 D-KA=0.298 LeftWall_36
CHANGE Salt_175_16_L_0 D-KP=2.641 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KA=0.496 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KP=4.484 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KA=0.298 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KP=2.687 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 U-COHE=2 LeftWall_36
CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 D-COHE=2 LeftWall_36
CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ADD WallElement_11138 WallElement_New_75260
ENDSTEP

STEP StageA_205794
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

STEP Sisma_79386
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
CHANGE Rilevato_76031_14_L_0 U-KAED=0.34008 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KAEW=0.4298 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KPED=10.105 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KPEW=9.9365 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KAED=0.27269 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KAEW=0.33966 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KPED=5.3275 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KPEW=4.9256 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KAED=0.94201 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KAEW=1.0432 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KPED=4.4659 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KPEW=4.3209 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KAED=0.35689 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KAEW=0.42291 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KPED=2.0188 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KPEW=1.6514 LeftWall_36
CHANGE Salt_175_16_L_0 U-KAED=0.91802 LeftWall_36
CHANGE Salt_175_16_L_0 U-KAEW=1.0098 LeftWall_36
CHANGE Salt_175_16_L_0 U-KPED=4.8916 LeftWall_36
CHANGE Salt_175_16_L_0 U-KPEW=4.7361 LeftWall_36
CHANGE Salt_175_16_L_0 D-KAED=0.33201 LeftWall_36
```

```

CHANGE Salt_175_16_L_0 D-KAEW=0.38559 LeftWall_36
CHANGE Salt_175_16_L_0 D-KPED=2.2609 LeftWall_36
CHANGE Salt_175_16_L_0 D-KPEW=1.9528 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KAED=0.74797 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KAEW=0.99417 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KPED=4.5337 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KPEW=4.3804 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KAED=0.33201 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KAEW=0.37602 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KPED=2.3068 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KPEW=2.0552 LeftWall_36
EQK USER 0.0864 0.0432 -0.0432 0 0.5 -9.2645 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_36
*
*   min elevation = -4
*   max elevation = 0
*   average gamma = 19
*
*       kh = 0,0864
*
*       deltaQ = 9,8496
DLOAD step LeftWall_36 -4 2.4624 0 2.4624
* Include pressure contribution from wall: LeftWall_36
* Include wall contribution
DLOAD step LeftWall_36 -3 2.16 0 2.16
DLOAD step LeftWall_36 -4 2.2453 -3 2.2453
ENDSTEP

```

8.2. Design Assumption : Nominal - File di Paratie - File di output (.out)

```

+-----+
|                PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                                                                                               |
+-----+

```

```

*****
*
*   PARATIE PLUS Non-Linear Spring Engine
*
*   AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
*   FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
*   Written by CEAS s.r.l. (ITALY)
*   with the scientific supervision of
*   Roberto Nova - full professor SOIL MECHANICS
*   at Politecnico di Milano (ITALY)
*
*****
*
*   RELEASE  2022.0.0  *Build date:Sep 13, 2021*
*
*
*   CEAS S.R.L VIALE  GIUSTINIANO 10
*   20129  M I L A N O  (ITALIA)
*   TEL.      +39 02 2020221
*
*   email     bruno.becci@ceas.it
*   Web Page  www.ceas.it      www.paratieplus.com
*****

```

JOB : ParatiePlus

STARTING

```

ACCEPTED &lt;FILE,GENW                                     &gt;
ACCEPTED &lt;FILE,PLOTTER,BINARY                           &gt;
ACCEPTED &lt;SOLVE TOTAL STRESS                            &gt;
ACCEPTED &lt;PARAM ITEMAX 40                               &gt;
ACCEPTED &lt;CONTROL CONTACT LAGRANGE                      &gt;
ACCEPTED &lt;CONTROL HINGES 0 0.0001 0.001                &gt;

```

```

*****
*
*   WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED
*   BY THE PROGRAM.
*****

```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                   |
|                                                                                               Exe Time :28 January 2022   15:34:58                                                                 |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 107
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 214
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 145
NO. OF LONG NAMES (LASTNAME) ..... 17
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
MAX INELASTIC DISPL. TABLE LENGTH..... 0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

```

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F

```

RELEVANT ITEMS UNITS

```

STRESSES                kPa
Y-DISPLACEMENTS        m
ROTATIONS                RADIANS
BEAM AND SLAB MOMENTS   kN*m/m
BEAM SHEAR FORCES       kN/m
ANCHOR FORCES           kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS    kN/m
Y-REACTIONS             kN/m
X-MOMENT REACTIONS      kN*m/m
ETC.

```

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                                                                                               |
+-----+

```

```

P R E P R O C E S S O R      D A T A

N O .   O F   C O M M A N D S      1 4 5

```

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control contact lagrange
6 : option control hinges 0 0.0001 0.001
7 : WALL LeftWall_36 0 -21.2 0 1
8 : SOIL 0_L LeftWall_36 -21.2 0 1 0
9 : SOIL 0_R LeftWall_36 -21.2 0 2 180
10 : LDATA Rilevato_76031_14_L_0 15 LeftWall_36
11 : ATREST 0.5 0.5 1
12 : WEIGHT 19 9 10
13 : PERMEABILITY 1E-05
14 : RESISTANCE 0 35 0 0 0
15 : TZDATA LINEAR 0 0 0 0.5 0
16 : KSCALE 0 0
17 : YOUNG 40000 40000
18 : ENDL
19 : LDATA Ala_76024_15_L_0 -4 LeftWall_36
20 : ATREST 0.5 0.5 1
21 : WEIGHT 19 9 10
22 : PERMEABILITY 1E-05
23 : RESISTANCE 2 25 0 0 0
24 : TZDATA LINEAR 0 0 0 0.5 0
25 : KSCALE 0 0
26 : YOUNG 30000 90000
27 : ENDL
28 : LDATA Salt_175_16_L_0 -12.12 LeftWall_36
29 : ATREST 0.5 0.5 1
30 : WEIGHT 20.5 10.5 10
31 : PERMEABILITY 1E-05
32 : RESISTANCE 10 27 0 0 0
33 : TZDATA LINEAR 10000 0 25 0.5 0
34 : KSCALE 0 0
35 : YOUNG 1.03E+05 3.09E+05
36 : ENDL
37 : LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
38 : ATREST 0.5 0.5 1
39 : WEIGHT 22.5 12.5 10
40 : PERMEABILITY 1E-05
41 : RESISTANCE 50 27 0 0 0
42 : TZDATA LINEAR 0 0 0 0.5 0
43 : KSCALE 0 0
44 : YOUNG 1.35E+05 4.05E+05
45 : ENDL
46 : MATERIAL Fe360_114 2.06E+08
47 : MATERIAL C3240_112 3.3346E+07
48 : BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
49 : BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0
50 : STRIP LeftWall_36 1 1 11.4 9.9 4.7 40 45
51 : STEP Finale_40504
52 : CHANGE Rilevato_76031_14_L_0 U-FRICT=35 LeftWall_36
53 : CHANGE Rilevato_76031_14_L_0 D-FRICT=35 LeftWall_36
54 : CHANGE Rilevato_76031_14_L_0 U-KA=0.266 LeftWall_36
55 : CHANGE Rilevato_76031_14_L_0 U-KP=9.735 LeftWall_36
56 : CHANGE Rilevato_76031_14_L_0 D-KA=0.235 LeftWall_36
57 : CHANGE Rilevato_76031_14_L_0 D-KP=5.879 LeftWall_36
58 : CHANGE Ala_76024_15_L_0 U-FRICT=25 LeftWall_36
59 : CHANGE Ala_76024_15_L_0 D-FRICT=25 LeftWall_36
60 : CHANGE Ala_76024_15_L_0 U-KA=0.689 LeftWall_36
61 : CHANGE Ala_76024_15_L_0 U-KP=4.351 LeftWall_36
62 : CHANGE Ala_76024_15_L_0 D-KA=0.322 LeftWall_36
63 : CHANGE Ala_76024_15_L_0 D-KP=2.38 LeftWall_36
64 : CHANGE Salt_175_16_L_0 U-FRICT=27 LeftWall_36
65 : CHANGE Salt_175_16_L_0 D-FRICT=27 LeftWall_36
66 : CHANGE Salt_175_16_L_0 U-KA=0.557 LeftWall_36
67 : CHANGE Salt_175_16_L_0 U-KP=4.793 LeftWall_36
68 : CHANGE Salt_175_16_L_0 D-KA=0.298 LeftWall_36
69 : CHANGE Salt_175_16_L_0 D-KP=2.641 LeftWall_36
70 : CHANGE Pa_37608_76032_L_0 U-FRICT=27 LeftWall_36
71 : CHANGE Pa_37608_76032_L_0 D-FRICT=27 LeftWall_36
72 : CHANGE Pa_37608_76032_L_0 U-KA=0.496 LeftWall_36
73 : CHANGE Pa_37608_76032_L_0 U-KP=4.484 LeftWall_36
74 : CHANGE Pa_37608_76032_L_0 D-KA=0.298 LeftWall_36
75 : CHANGE Pa_37608_76032_L_0 D-KP=2.687 LeftWall_36
76 : CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
77 : CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
78 : CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
79 : CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36

```

80 : CHANGE Ala_76024_15_L_0 U-COHE=2 LeftWall_36
81 : CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
82 : CHANGE Ala_76024_15_L_0 D-COHE=2 LeftWall_36
83 : CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
84 : CHANGE Salt_175_16_L_0 U-COHE=10 LeftWall_36
85 : CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
86 : CHANGE Salt_175_16_L_0 D-COHE=10 LeftWall_36
87 : CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
88 : CHANGE Pa_37608_76032_L_0 U-COHE=50 LeftWall_36
89 : CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
90 : CHANGE Pa_37608_76032_L_0 D-COHE=50 LeftWall_36
91 : CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
92 : SETWALL LeftWall_36
93 : GEOM 0 -4
94 : SURCHARGE 0 0 0 0
95 : WATER -5.8866 0.1931 -21.2 0 0
96 : ADD WallElement_11138 WallElement_New_75260
97 : ENDSTEP
98 : STEP StageA_205794
99 : SETWALL LeftWall_36
100 : GEOM 0 -4
101 : SURCHARGE 0 0 0 0
102 : WATER -5.8866 0.1931 -21.2 0 0
103 : ENDSTEP
104 : STEP Sisma_79386
105 : SETWALL LeftWall_36
106 : GEOM 0 -4
107 : SURCHARGE 0 0 0 0
108 : WATER -5.8866 0.1931 -21.2 0 0
109 : CHANGE Rilevato_76031_14_L_0 U-KAED=0.34008 LeftWall_36
110 : CHANGE Rilevato_76031_14_L_0 U-KAEW=0.4298 LeftWall_36
111 : CHANGE Rilevato_76031_14_L_0 U-KPED=10.105 LeftWall_36
112 : CHANGE Rilevato_76031_14_L_0 U-KPEW=9.9365 LeftWall_36
113 : CHANGE Rilevato_76031_14_L_0 D-KAED=0.27269 LeftWall_36
114 : CHANGE Rilevato_76031_14_L_0 D-KAEW=0.33966 LeftWall_36
115 : CHANGE Rilevato_76031_14_L_0 D-KPED=5.3275 LeftWall_36
116 : CHANGE Rilevato_76031_14_L_0 D-KPEW=4.9256 LeftWall_36
117 : CHANGE Ala_76024_15_L_0 U-KAED=0.94201 LeftWall_36
118 : CHANGE Ala_76024_15_L_0 U-KAEW=1.0432 LeftWall_36
119 : CHANGE Ala_76024_15_L_0 U-KPED=4.4659 LeftWall_36
120 : CHANGE Ala_76024_15_L_0 U-KPEW=4.3209 LeftWall_36
121 : CHANGE Ala_76024_15_L_0 D-KAED=0.35689 LeftWall_36
122 : CHANGE Ala_76024_15_L_0 D-KAEW=0.42291 LeftWall_36
123 : CHANGE Ala_76024_15_L_0 D-KPED=2.0188 LeftWall_36
124 : CHANGE Ala_76024_15_L_0 D-KPEW=1.6514 LeftWall_36
125 : CHANGE Salt_175_16_L_0 U-KAED=0.91802 LeftWall_36
126 : CHANGE Salt_175_16_L_0 U-KAEW=1.0098 LeftWall_36
127 : CHANGE Salt_175_16_L_0 U-KPED=4.8916 LeftWall_36
128 : CHANGE Salt_175_16_L_0 U-KPEW=4.7361 LeftWall_36
129 : CHANGE Salt_175_16_L_0 D-KAED=0.33201 LeftWall_36
130 : CHANGE Salt_175_16_L_0 D-KAEW=0.38559 LeftWall_36
131 : CHANGE Salt_175_16_L_0 D-KPED=2.2609 LeftWall_36
132 : CHANGE Salt_175_16_L_0 D-KPEW=1.9528 LeftWall_36
133 : CHANGE Pa_37608_76032_L_0 U-KAED=0.74797 LeftWall_36
134 : CHANGE Pa_37608_76032_L_0 U-KAEW=0.99417 LeftWall_36
135 : CHANGE Pa_37608_76032_L_0 U-KPED=4.5337 LeftWall_36
136 : CHANGE Pa_37608_76032_L_0 U-KPEW=4.3804 LeftWall_36
137 : CHANGE Pa_37608_76032_L_0 D-KAED=0.33201 LeftWall_36
138 : CHANGE Pa_37608_76032_L_0 D-KAEW=0.37602 LeftWall_36
139 : CHANGE Pa_37608_76032_L_0 D-KPED=2.3068 LeftWall_36
140 : CHANGE Pa_37608_76032_L_0 D-KPEW=2.0552 LeftWall_36
141 : EQK USER 0.0864 0.0432 -0.0432 0 0.5 -9.2645 0.5 0 0
142 : DLOAD step LeftWall_36 -4 2.4624 0 2.4624
143 : DLOAD step LeftWall_36 -3 2.16 0 2.16
144 : DLOAD step LeftWall_36 -4 2.2453 -3 2.2453
145 : ENDSTEP


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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                               |
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N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /				
1	0.0000	0.0000	/	2	0.0000	-0.20000	/	3	0.0000	-0.40000	/	4	0.0000	-0.60000	/
5	0.0000	-0.80000	/	6	0.0000	-1.0000	/	7	0.0000	-1.2000	/	8	0.0000	-1.4000	/
9	0.0000	-1.6000	/	10	0.0000	-1.8000	/	11	0.0000	-2.0000	/	12	0.0000	-2.2000	/
13	0.0000	-2.4000	/	14	0.0000	-2.6000	/	15	0.0000	-2.8000	/	16	0.0000	-3.0000	/
17	0.0000	-3.2000	/	18	0.0000	-3.4000	/	19	0.0000	-3.6000	/	20	0.0000	-3.8000	/
21	0.0000	-4.0000	/	22	0.0000	-4.2000	/	23	0.0000	-4.4000	/	24	0.0000	-4.6000	/
25	0.0000	-4.8000	/	26	0.0000	-5.0000	/	27	0.0000	-5.2000	/	28	0.0000	-5.4000	/
29	0.0000	-5.6000	/	30	0.0000	-5.8000	/	31	0.0000	-6.0000	/	32	0.0000	-6.2000	/
33	0.0000	-6.4000	/	34	0.0000	-6.6000	/	35	0.0000	-6.8000	/	36	0.0000	-7.0000	/
37	0.0000	-7.2000	/	38	0.0000	-7.4000	/	39	0.0000	-7.6000	/	40	0.0000	-7.8000	/
41	0.0000	-8.0000	/	42	0.0000	-8.2000	/	43	0.0000	-8.4000	/	44	0.0000	-8.6000	/
45	0.0000	-8.8000	/	46	0.0000	-9.0000	/	47	0.0000	-9.2000	/	48	0.0000	-9.4000	/
49	0.0000	-9.6000	/	50	0.0000	-9.8000	/	51	0.0000	-10.0000	/	52	0.0000	-10.200	/
53	0.0000	-10.400	/	54	0.0000	-10.600	/	55	0.0000	-10.800	/	56	0.0000	-11.000	/
57	0.0000	-11.200	/	58	0.0000	-11.400	/	59	0.0000	-11.600	/	60	0.0000	-11.800	/
61	0.0000	-12.000	/	62	0.0000	-12.200	/	63	0.0000	-12.400	/	64	0.0000	-12.600	/
65	0.0000	-12.800	/	66	0.0000	-13.000	/	67	0.0000	-13.200	/	68	0.0000	-13.400	/
69	0.0000	-13.600	/	70	0.0000	-13.800	/	71	0.0000	-14.000	/	72	0.0000	-14.200	/
73	0.0000	-14.400	/	74	0.0000	-14.600	/	75	0.0000	-14.800	/	76	0.0000	-15.000	/
77	0.0000	-15.200	/	78	0.0000	-15.400	/	79	0.0000	-15.600	/	80	0.0000	-15.800	/
81	0.0000	-16.000	/	82	0.0000	-16.200	/	83	0.0000	-16.400	/	84	0.0000	-16.600	/
85	0.0000	-16.800	/	86	0.0000	-17.000	/	87	0.0000	-17.200	/	88	0.0000	-17.400	/
89	0.0000	-17.600	/	90	0.0000	-17.800	/	91	0.0000	-18.000	/	92	0.0000	-18.200	/
93	0.0000	-18.400	/	94	0.0000	-18.600	/	95	0.0000	-18.800	/	96	0.0000	-19.000	/
97	0.0000	-19.200	/	98	0.0000	-19.400	/	99	0.0000	-19.600	/	100	0.0000	-19.800	/
101	0.0000	-20.000	/	102	0.0000	-20.200	/	103	0.0000	-20.400	/	104	0.0000	-20.600	/
105	0.0000	-20.800	/	106	0.0000	-21.000	/	107	0.0000	-21.200	/				

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021* |
|          |
|          |
|          ParatiePlus |
|          Exe Time :28 January 2022  15:34:58 |
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ELEMENT GROUP NO. 1

0_L :
5 107 0 1 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active

```

material set no. 1

prop(1) angle 0.00000
prop(2) layer as foreseen 1.00000

material set no. 2

prop(1) angle 0.00000
prop(2) layer as foreseen 2.00000

material set no. 3

prop(1) angle 0.00000
prop(2) layer as foreseen 3.00000

material set no. 4

prop(1) angle 0.00000
prop(2) layer as foreseen 4.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000

39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	2	0.2000	0.000	0.000	0.000	1.000
42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	4	0.2000	0.000	0.000	0.000	1.000
73	73	4	0.2000	0.000	0.000	0.000	1.000
74	74	4	0.2000	0.000	0.000	0.000	1.000
75	75	4	0.2000	0.000	0.000	0.000	1.000
76	76	4	0.2000	0.000	0.000	0.000	1.000
77	77	4	0.2000	0.000	0.000	0.000	1.000
78	78	4	0.2000	0.000	0.000	0.000	1.000
79	79	4	0.2000	0.000	0.000	0.000	1.000
80	80	4	0.2000	0.000	0.000	0.000	1.000
81	81	4	0.2000	0.000	0.000	0.000	1.000
82	82	4	0.2000	0.000	0.000	0.000	1.000
83	83	4	0.2000	0.000	0.000	0.000	1.000
84	84	4	0.2000	0.000	0.000	0.000	1.000
85	85	4	0.2000	0.000	0.000	0.000	1.000
86	86	4	0.2000	0.000	0.000	0.000	1.000
87	87	4	0.2000	0.000	0.000	0.000	1.000
88	88	4	0.2000	0.000	0.000	0.000	1.000
89	89	4	0.2000	0.000	0.000	0.000	1.000
90	90	4	0.2000	0.000	0.000	0.000	1.000
91	91	4	0.2000	0.000	0.000	0.000	1.000
92	92	4	0.2000	0.000	0.000	0.000	1.000
93	93	4	0.2000	0.000	0.000	0.000	1.000
94	94	4	0.2000	0.000	0.000	0.000	1.000
95	95	4	0.2000	0.000	0.000	0.000	1.000
96	96	4	0.2000	0.000	0.000	0.000	1.000
97	97	4	0.2000	0.000	0.000	0.000	1.000
98	98	4	0.2000	0.000	0.000	0.000	1.000
99	99	4	0.2000	0.000	0.000	0.000	1.000
100	100	4	0.2000	0.000	0.000	0.000	1.000
101	101	4	0.2000	0.000	0.000	0.000	1.000
102	102	4	0.2000	0.000	0.000	0.000	1.000
103	103	4	0.2000	0.000	0.000	0.000	1.000
104	104	4	0.2000	0.000	0.000	0.000	1.000
105	105	4	0.2000	0.000	0.000	0.000	1.000
106	106	4	0.2000	0.000	0.000	0.000	1.000
107	107	4	0.1000	0.000	0.000	0.000	1.000

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                       |
|                                                                                               Exe Time :28 January 2022   15:34:58                                                                 |
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ELEMENT GROUP NO. 2

0_R :
5 107 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active

```

material set no. 1
prop(1) angle 180.000
prop(2) layer as foreseen 1.00000

material set no. 2
prop(1) angle 180.000
prop(2) layer as foreseen 2.00000

material set no. 3
prop(1) angle 180.000
prop(2) layer as foreseen 3.00000

material set no. 4
prop(1) angle 180.000
prop(2) layer as foreseen 4.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000

39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	2	0.2000	0.000	0.000	0.000	2.000
42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	4	0.2000	0.000	0.000	0.000	2.000
73	73	4	0.2000	0.000	0.000	0.000	2.000
74	74	4	0.2000	0.000	0.000	0.000	2.000
75	75	4	0.2000	0.000	0.000	0.000	2.000
76	76	4	0.2000	0.000	0.000	0.000	2.000
77	77	4	0.2000	0.000	0.000	0.000	2.000
78	78	4	0.2000	0.000	0.000	0.000	2.000
79	79	4	0.2000	0.000	0.000	0.000	2.000
80	80	4	0.2000	0.000	0.000	0.000	2.000
81	81	4	0.2000	0.000	0.000	0.000	2.000
82	82	4	0.2000	0.000	0.000	0.000	2.000
83	83	4	0.2000	0.000	0.000	0.000	2.000
84	84	4	0.2000	0.000	0.000	0.000	2.000
85	85	4	0.2000	0.000	0.000	0.000	2.000
86	86	4	0.2000	0.000	0.000	0.000	2.000
87	87	4	0.2000	0.000	0.000	0.000	2.000
88	88	4	0.2000	0.000	0.000	0.000	2.000
89	89	4	0.2000	0.000	0.000	0.000	2.000
90	90	4	0.2000	0.000	0.000	0.000	2.000
91	91	4	0.2000	0.000	0.000	0.000	2.000
92	92	4	0.2000	0.000	0.000	0.000	2.000
93	93	4	0.2000	0.000	0.000	0.000	2.000
94	94	4	0.2000	0.000	0.000	0.000	2.000
95	95	4	0.2000	0.000	0.000	0.000	2.000
96	96	4	0.2000	0.000	0.000	0.000	2.000
97	97	4	0.2000	0.000	0.000	0.000	2.000
98	98	4	0.2000	0.000	0.000	0.000	2.000
99	99	4	0.2000	0.000	0.000	0.000	2.000
100	100	4	0.2000	0.000	0.000	0.000	2.000
101	101	4	0.2000	0.000	0.000	0.000	2.000
102	102	4	0.2000	0.000	0.000	0.000	2.000
103	103	4	0.2000	0.000	0.000	0.000	2.000
104	104	4	0.2000	0.000	0.000	0.000	2.000
105	105	4	0.2000	0.000	0.000	0.000	2.000
106	106	4	0.2000	0.000	0.000	0.000	2.000
107	107	4	0.1000	0.000	0.000	0.000	2.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|          |
|          ParatiePlus  |
|          Exe Time :28 January 2022  15:34:58  |
+-----+

```

ELEMENT GROUP NO. 3

```

WallElement_11138
  2 15  0  1  0  0  0  0  0  0  0  0  0  1  0  0  1  0
.....
.....2D WALL ELEMENT.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
  1  active
  2  active
  3  active

```

material set no. 1

```

prop( 1) young modulus  0.333500E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio    0.00000
prop( 5) future ..... 0.00000

```

```

no. of step variable items: 1
step  inertia multiplier
-----
  1  1.000
  2  1.000
  3  1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
2	2	3	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
3	3	4	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
4	4	5	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
5	5	6	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
6	6	7	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
7	7	8	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
8	8	9	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
9	9	10	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
10	10	11	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
11	11	12	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
12	12	13	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
13	13	14	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
14	14	15	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
15	15	16	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58           |
+-----+

```

ELEMENT GROUP NO. 4

```

WallElement_New_75260
2  91  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  1  0

```

```

.....
.....2D WALL ELEMENT.....
.....

```

element group behaviour throughout stage analysis

stage status

```

-----
1  active
2  active
3  active

```

material set no. 1

```

prop( 1) young modulus      0.333500E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....      0.00000

```

```

no. of step variable items:  1
step inertia multiplier

```

```

-----
1  1.000
2  1.000
3  1.000

```

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	16	17	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
2	17	18	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
3	18	19	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
4	19	20	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
5	20	21	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
6	21	22	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
7	22	23	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
8	23	24	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
9	24	25	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
10	25	26	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
11	26	27	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
12	27	28	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
13	28	29	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
14	29	30	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
15	30	31	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
16	31	32	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
17	32	33	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
18	33	34	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
19	34	35	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
20	35	36	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
21	36	37	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
22	37	38	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
23	38	39	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
24	39	40	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
25	40	41	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
26	41	42	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
27	42	43	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
28	43	44	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
29	44	45	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
30	45	46	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
31	46	47	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
32	47	48	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
33	48	49	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
34	49	50	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
35	50	51	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
36	51	52	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
37	52	53	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
38	53	54	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
39	54	55	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
40	55	56	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
41	56	57	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
42	57	58	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
43	58	59	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
44	59	60	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
45	60	61	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
46	61	62	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
47	62	63	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000

48	63	64	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
49	64	65	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
50	65	66	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
51	66	67	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
52	67	68	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
53	68	69	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
54	69	70	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
55	70	71	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
56	71	72	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
57	72	73	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
58	73	74	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
59	74	75	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
60	75	76	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
61	76	77	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
62	77	78	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
63	78	79	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
64	79	80	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
65	80	81	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
66	81	82	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
67	82	83	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
68	83	84	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
69	84	85	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
70	85	86	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
71	86	87	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
72	87	88	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
73	88	89	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
74	89	90	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
75	90	91	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
76	91	92	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
77	92	93	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
78	93	94	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
79	94	95	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
80	95	96	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
81	96	97	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
82	97	98	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
83	98	99	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
84	99	100	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
85	100	101	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
86	101	102	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
87	102	103	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
88	103	104	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
89	104	105	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
90	105	106	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
91	106	107	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000


```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:34:58          |
+-----+
```

```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*           |
|                                                                                                                         |
|                                                                                   ParatiePlus                             |
|                                                                                   Exe Time :28 January 2022  15:34:58          |
+-----+

```

LOAD DATA

LOAD FUNCTION NUMBER = 1
 NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
 NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
 NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 5
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

```

PROCESSING DISTRIBUTED LOADS CARD NO.   1
AT Y-COORD  0.000      Z-COORD -4.000    PRESSURE  2.462
                                     Z-COORD  0.000    PRESSURE  2.462
L.CURVE             3

```

NO. OF GENERATED NODAL FORCES 21

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
21	-.4000E+01	0.2462000E+00 /	20	-.3800E+01	0.4924000E+00 /	19	-.3600E+01	0.4924000E+00 /
18	-.3400E+01	0.4924000E+00 /	17	-.3200E+01	0.4924000E+00 /	16	-.3000E+01	0.4924000E+00 /
15	-.2800E+01	0.4924000E+00 /	14	-.2600E+01	0.4924000E+00 /	13	-.2400E+01	0.4924000E+00 /
12	-.2200E+01	0.4924000E+00 /	11	-.2000E+01	0.4924000E+00 /	10	-.1800E+01	0.4924000E+00 /
9	-.1600E+01	0.4924000E+00 /	8	-.1400E+01	0.4924000E+00 /	7	-.1200E+01	0.4924000E+00 /
6	-.1000E+01	0.4924000E+00 /	5	-.8000E+00	0.4924000E+00 /	4	-.6000E+00	0.4924000E+00 /
3	-.4000E+00	0.4924000E+00 /	2	-.2000E+00	0.4924000E+00 /	1	0.0000E+00	0.2462000E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 9.8480

PROCESSING DISTRIBUTED LOADS CARD NO. 2
 AT Y-COORD 0.000 Z-COORD -3.000 PRESSURE 2.160
 Z-COORD 0.000 PRESSURE 2.160
 L.CURVE 3

NO. OF GENERATED NODAL FORCES 16

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
16	-.3000E+01	0.2160000E+00 /	15	-.2800E+01	0.4320000E+00 /	14	-.2600E+01	0.4320000E+00 /
13	-.2400E+01	0.4320000E+00 /	12	-.2200E+01	0.4320000E+00 /	11	-.2000E+01	0.4320000E+00 /
10	-.1800E+01	0.4320000E+00 /	9	-.1600E+01	0.4320000E+00 /	8	-.1400E+01	0.4320000E+00 /
7	-.1200E+01	0.4320000E+00 /	6	-.1000E+01	0.4320000E+00 /	5	-.8000E+00	0.4320000E+00 /
4	-.6000E+00	0.4320000E+00 /	3	-.4000E+00	0.4320000E+00 /	2	-.2000E+00	0.4320000E+00 /
1	0.0000E+00	0.2160000E+00 /						

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 6.4800

PROCESSING DISTRIBUTED LOADS CARD NO. 3
 AT Y-COORD 0.000 Z-COORD -4.000 PRESSURE 2.245
 Z-COORD -3.000 PRESSURE 2.245
 L.CURVE 3

NO. OF GENERATED NODAL FORCES 6

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
21	-.4000E+01	0.2245000E+00 /	20	-.3800E+01	0.4490000E+00 /	19	-.3600E+01	0.4490000E+00 /
18	-.3400E+01	0.4490000E+00 /	17	-.3200E+01	0.4490000E+00 /	16	-.3000E+01	0.2245000E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 2.2450

NO. OF DISTRIBUTED LOAD CARDS 3

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58           |
+-----+

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L O A D      B A L A N C E

STEP  1  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  1  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP  2  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  2  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP  3  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          18.573000
STEP  3  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

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LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58           |
+-----+
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NO. OF LAYERS ..... 4
NO. OF DATA PER LAYER..... 160
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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                                                                                               |
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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 10.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= 15.000  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 19.000  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 9.0000  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 35.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.26600  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 9.7350  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 40000.  (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 40000.  (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61&lt;U-TZALPH&gt;= 0.50000  (BOTH WALLS)
ITEM NO. 82&lt;D-NATURE&gt;= 1.0000  (BOTH WALLS)
ITEM NO. 83&lt;D-LEVEL  &gt;= 0.0000  (BOTH WALLS)
ITEM NO. 89&lt;D-FRICT  &gt;= 35.000  (BOTH WALLS)
ITEM NO. 90&lt;D-KA     &gt;= 0.23500  WALL NO.      1
ITEM NO. 91&lt;D-KP     &gt;= 5.8790  WALL NO.      1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000  (BOTH WALLS)

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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 11.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= -4.0000  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 19.000  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 9.0000  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  8&lt;U-COHE   &gt;= 2.0000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 25.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.68900  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 4.3510  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 30000.  (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 90000.  (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61&lt;U-TZALPH&gt;= 0.50000  (BOTH WALLS)
ITEM NO. 82&lt;D-NATURE&gt;= 1.0000  (BOTH WALLS)
ITEM NO. 83&lt;D-LEVEL  &gt;= 0.0000  (BOTH WALLS)
ITEM NO. 88&lt;D-COHE   &gt;= 2.0000  (BOTH WALLS)
ITEM NO. 89&lt;D-FRICT  &gt;= 25.000  (BOTH WALLS)
ITEM NO. 90&lt;D-KA     &gt;= 0.32200  WALL NO.      1
ITEM NO. 91&lt;D-KP     &gt;= 2.3800  WALL NO.      1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000  (BOTH WALLS)

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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 12.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= -12.120  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 20.500  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 10.500  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  8&lt;U-COHE   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 27.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.55700  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 4.7930  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58&lt;U-TZKZ   &gt;= 10000.  (BOTH WALLS)

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ITEM NO. 60<lt;U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<lt;U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<lt;D-NATURE>= 1.00000 (BOTH WALLS)
ITEM NO. 83<lt;D-LEVEL >= 0.00000 (BOTH WALLS)
ITEM NO. 88<lt;D-COHE >= 10.0000 (BOTH WALLS)
ITEM NO. 89<lt;D-FRICT >= 27.0000 (BOTH WALLS)
ITEM NO. 90<lt;D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<lt;D-KP >= 2.6410 WALL NO. 1
ITEM NO. 107<lt;D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<lt;D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<lt;D-TZDELT>= 25.0000 (BOTH WALLS)
ITEM NO. 141<lt;D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 1

ITEM NO. 1<lt;NAME >= 13.0000 (BOTH WALLS)
ITEM NO. 2<lt;NATURE >= 1.00000 (BOTH WALLS)
ITEM NO. 3<lt;LEVEL >= -14.120 (BOTH WALLS)
ITEM NO. 4<lt;WALL >= 1.00000 (BOTH WALLS)
ITEM NO. 5<lt;GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<lt;GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<lt;GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<lt;U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<lt;U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<lt;U-KA >= 0.49600 WALL NO. 1
ITEM NO. 11<lt;U-KP >= 4.4840 WALL NO. 1
ITEM NO. 12<lt;K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<lt;NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<lt;OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<lt;MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<lt;EVC >= 0.13500E+06 (BOTH WALLS)
ITEM NO. 18<lt;EUR >= 0.40500E+06 (BOTH WALLS)
ITEM NO. 27<lt;U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<lt;U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<lt;D-NATURE>= 1.00000 (BOTH WALLS)
ITEM NO. 83<lt;D-LEVEL >= 0.00000 (BOTH WALLS)
ITEM NO. 88<lt;D-COHE >= 50.0000 (BOTH WALLS)
ITEM NO. 89<lt;D-FRICT >= 27.0000 (BOTH WALLS)
ITEM NO. 90<lt;D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<lt;D-KP >= 2.6870 WALL NO. 1
ITEM NO. 107<lt;D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<lt;D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO. 1<lt;NAME >= 10.000 (BOTH WALLS)
ITEM NO. 2<lt;NATURE >= 1.00000 (BOTH WALLS)
ITEM NO. 3<lt;LEVEL >= 15.000 (BOTH WALLS)
ITEM NO. 4<lt;WALL >= 1.00000 (BOTH WALLS)
ITEM NO. 5<lt;GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<lt;GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<lt;GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<lt;U-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 10<lt;U-KA >= 0.26600 WALL NO. 1
ITEM NO. 11<lt;U-KP >= 9.7350 WALL NO. 1
ITEM NO. 12<lt;K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<lt;NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<lt;OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<lt;MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<lt;EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<lt;EUR >= 40000. (BOTH WALLS)
ITEM NO. 27<lt;U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<lt;U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<lt;D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<lt;D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 89<lt;D-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 90<lt;D-KA >= 0.23500 WALL NO. 1
ITEM NO. 91<lt;D-KP >= 5.8790 WALL NO. 1
ITEM NO. 107<lt;D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<lt;D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 2

ITEM NO. 1<lt;NAME >= 11.000 (BOTH WALLS)
ITEM NO. 2<lt;NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<lt;LEVEL >= -4.0000 (BOTH WALLS)
ITEM NO. 4<lt;WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<lt;GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<lt;GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<lt;GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<lt;U-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 9<lt;U-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 10<lt;U-KA >= 0.68900 WALL NO. 1
ITEM NO. 11<lt;U-KP >= 4.3510 WALL NO. 1
ITEM NO. 12<lt;K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<lt;NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<lt;OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<lt;MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<lt;EVC >= 30000. (BOTH WALLS)

ITEM NO. 18<EUR >= 90000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
 ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 88<D-COHE >= 2.0000 (BOTH WALLS)
 ITEM NO. 89<D-FRICT >= 25.000 (BOTH WALLS)
 ITEM NO. 90<D-KA >= 0.32200 WALL NO. 1
 ITEM NO. 91<D-KP >= 2.3800 WALL NO. 1
 ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.120 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.500 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.500 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.55700 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.7930 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 0.10300E+06 (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.30900E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
 ITEM NO. 60<U-TZDELTA>= 25.000 (BOTH WALLS)
 ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
 ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
 ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
 ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
 ITEM NO. 91<D-KP >= 2.6410 WALL NO. 1
 ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
 ITEM NO. 140<D-TZDELTA>= 25.000 (BOTH WALLS)
 ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 2

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -14.120 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.49600 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.4840 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 0.13500E+06 (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.40500E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
 ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
 ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
 ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
 ITEM NO. 91<D-KP >= 2.6870 WALL NO. 1
 ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 10.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 15.000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.26600 WALL NO. 1
 ITEM NO. 11<U-KP >= 9.7350 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)

ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 40000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 40000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	= 0.34008	WALL NO.	1
ITEM NO.	48	U-KAEW	= 0.42980	WALL NO.	1
ITEM NO.	49	U-KPED	= 10.105	WALL NO.	1
ITEM NO.	50	U-KPEW	= 9.9365	WALL NO.	1
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	= 35.000	(BOTH WALLS)	
ITEM NO.	90	D-KA	= 0.23500	WALL NO.	1
ITEM NO.	91	D-KP	= 5.8790	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	= 0.27269	WALL NO.	1
ITEM NO.	128	D-KAEW	= 0.33966	WALL NO.	1
ITEM NO.	129	D-KPED	= 5.3275	WALL NO.	1
ITEM NO.	130	D-KPEW	= 4.9256	WALL NO.	1
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO.	1	NAME	>= 11.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -4.0000	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 2.0000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	= 25.000	(BOTH WALLS)	
ITEM NO.	10	U-KA	= 0.68900	WALL NO.	1
ITEM NO.	11	U-KP	= 4.3510	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 30000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 90000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	= 0.94201	WALL NO.	1
ITEM NO.	48	U-KAEW	= 1.0432	WALL NO.	1
ITEM NO.	49	U-KPED	= 4.4659	WALL NO.	1
ITEM NO.	50	U-KPEW	= 4.3209	WALL NO.	1
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	= 2.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	= 25.000	(BOTH WALLS)	
ITEM NO.	90	D-KA	= 0.32200	WALL NO.	1
ITEM NO.	91	D-KP	= 2.3800	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	= 0.35689	WALL NO.	1
ITEM NO.	128	D-KAEW	= 0.42291	WALL NO.	1
ITEM NO.	129	D-KPED	= 2.0188	WALL NO.	1
ITEM NO.	130	D-KPEW	= 1.6514	WALL NO.	1
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 3

ITEM NO.	1	NAME	>= 12.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -12.120	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 20.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 10.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 10.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	= 27.000	(BOTH WALLS)	
ITEM NO.	10	U-KA	= 0.55700	WALL NO.	1
ITEM NO.	11	U-KP	= 4.7930	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 0.10300E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	= 0.30900E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	= 0.91802	WALL NO.	1
ITEM NO.	48	U-KAEW	= 1.0098	WALL NO.	1
ITEM NO.	49	U-KPED	= 4.8916	WALL NO.	1
ITEM NO.	50	U-KPEW	= 4.7361	WALL NO.	1
ITEM NO.	58	U-TZKZ	= 10000.	(BOTH WALLS)	
ITEM NO.	60	U-TZDELTA	= 25.000	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	= 10.000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	= 27.000	(BOTH WALLS)	

ITEM NO.	90	D-KA	>= 0.29800	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.6410	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	>= 0.33201	WALL NO.	1
ITEM NO.	128	D-KAEW	>= 0.38559	WALL NO.	1
ITEM NO.	129	D-KPED	>= 2.2609	WALL NO.	1
ITEM NO.	130	D-KPEW	>= 1.9528	WALL NO.	1
ITEM NO.	138	D-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	140	D-TZDELTA	>= 25.000	(BOTH WALLS)	
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 3

ITEM NO.	1	NAME	>= 13.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= -14.120	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 22.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 12.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	>= 50.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	>= 27.000	(BOTH WALLS)	
ITEM NO.	10	U-KA	>= 0.49600	WALL NO.	1
ITEM NO.	11	U-KP	>= 4.4840	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	>= 0.74797	WALL NO.	1
ITEM NO.	48	U-KAEW	>= 0.99417	WALL NO.	1
ITEM NO.	49	U-KPED	>= 4.5337	WALL NO.	1
ITEM NO.	50	U-KPEW	>= 4.3804	WALL NO.	1
ITEM NO.	61	U-TZALPHA	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 50.000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 27.000	(BOTH WALLS)	
ITEM NO.	90	D-KA	>= 0.29800	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.6870	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	>= 0.33201	WALL NO.	1
ITEM NO.	128	D-KAEW	>= 0.37602	WALL NO.	1
ITEM NO.	129	D-KPED	>= 2.3068	WALL NO.	1
ITEM NO.	130	D-KPEW	>= 2.0552	WALL NO.	1
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 12 VALUES

PHASE DESCRIPTORS

STEP NO.	1 no. of subincrements	1		
			LEFT WALL	RIGHT WALL
Y			0.000	-0.9990E+30
Z-PC			0.000	0.000
Z-EXCAVATION			-4.000	0.000
Z-WATER_TABLE			-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL			0.000	0.000
ZQ			0.000	0.000
DZW_OF_THE_WATER_TABLE			0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE			0.000	0.000
ZQS			0.000	-0.9990E+30
ZCUT			0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES			-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)			0.000	0.000
PORE_UPDATE_FLAG			0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)			0.000	0.000
lateral thrusts reduction elevatio			0.000	0.000
Downhill reduction factor for effe			0.000	0.000
Downhill reduction factor for pore			0.000	0.000
Uphill reduction factor for effect			0.000	0.000
Uphill reduction factor for pore p			0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]			0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]			0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]			0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]			0.000	0.000
UPHILL DELTA/PHI RATIO			0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]			0.000	0.000
DOWNHILL DELTA/PHI RATIO			0.000	0.000
DYN.WATER BEHAVIOUR			0.000	0.000
Excess pore pressure RATIO Ru			0.000	0.000
SEISMIC PRESSURE LOWER VALUE			0.000	0.000
SEISMIC PRESSURE UPPER VALUE			0.000	0.000
SEISMIC PRESSURE LOWER LEVEL			0.000	0.000
SEISMIC PRESSURE UPPER LEVEL			0.000	0.000

=====end of step 1

STEP NO.	2 no. of subincrements	1		
			LEFT WALL	RIGHT WALL
Y			0.000	-0.9990E+30
Z-PC			0.000	0.000
Z-EXCAVATION			-4.000	0.000
Z-WATER_TABLE			-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL			0.000	0.000
ZQ			0.000	0.000
DZW_OF_THE_WATER_TABLE			0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE			0.000	0.000
ZQS			0.000	-0.9990E+30
ZCUT			0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES			-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)			0.000	0.000
PORE_UPDATE_FLAG			0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)			0.000	0.000
lateral thrusts reduction elevatio			0.000	0.000
Downhill reduction factor for effe			0.000	0.000
Downhill reduction factor for pore			0.000	0.000
Uphill reduction factor for effect			0.000	0.000
Uphill reduction factor for pore p			0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]			0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]			0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]			0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]			0.000	0.000
UPHILL DELTA/PHI RATIO			0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]			0.000	0.000
DOWNHILL DELTA/PHI RATIO			0.000	0.000
DYN.WATER BEHAVIOUR			0.000	0.000
Excess pore pressure RATIO Ru			0.000	0.000
SEISMIC PRESSURE LOWER VALUE			0.000	0.000
SEISMIC PRESSURE UPPER VALUE			0.000	0.000
SEISMIC PRESSURE LOWER LEVEL			0.000	0.000
SEISMIC PRESSURE UPPER LEVEL			0.000	0.000

=====end of step 2

STEP NO.	3 no. of subincrements	1		
			LEFT WALL	RIGHT WALL
Y			0.000	-0.9990E+30

Z-PC	0.000	0.000
Z-EXCAVATION	-4.000	0.000
Z-WATER_TABLE	-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	-0.8640E-01	0.000
	MANUAL	
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.4320E-01	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	-0.4320E-01	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.5000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	-9.264	0.000
DOWNHILL DELTA/PHI RATIO	0.5000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

=====end of step 3

LEFT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

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|               PARATIEPLUS(TM)   NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*           |
|               |
|               |               ParatiePlus |
|               |               Exe Time :28 January 2022   15:34:58 |
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I N I T I A L S T R E S S T A B L E S

S E C T I O N

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 1.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 11.400000000000000
 FOUNDATION WIDTH (B) 9.900000000000000
 ZETA-F..... 4.700000000000000
 Q-F 40.000000000000000
 BETA 45.000000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 5874

NO. OF D.P.W FOR THIS AREA 16376
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

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ITER    0  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.1763E+06 RIMNOR= 0.000
         RENORM= 5609.      REMNOR= 0.000            RATIO =0.1783        TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 58.02      RMMAX = 0.000
         RTSMAL=0.1000E-03 RMSMAL= 0.000
         RDT =0.1763E+06    RDR = 0.000
         RATIOT=0.1783      RATIO= 0.000
         MAX UN= 8.228      IEQ=    39 NODE        20 DOF    1 Y-DISPL.F
         MIN UN= 0.000      IEQ=    2 NODE        1 DOF    2 X-ROT. F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    2  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.1763E+06 RIMNOR= 0.000
         RENORM= 3598.      REMNOR=0.5090E-17 RATIO =0.1428        TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 58.02      RMMAX = 0.000
         RTSMAL=0.1000E-03 RMSMAL= 0.000
         RDT =0.1763E+06    RDR = 0.000
         RATIOT=0.1428      RATIO= 0.000
         MAX UN= 19.40      IEQ=    123 NODE       62 DOF    1 Y-DISPL.F
         MIN UN=-.3913      IEQ=    1 NODE        1 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    3  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.1763E+06 RIMNOR= 0.000
         RENORM= 1709.      REMNOR=0.5617E-16 RATIO =0.9845E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 58.02      RMMAX = 0.000
         RTSMAL=0.1000E-03 RMSMAL= 0.000
         RDT =0.1763E+06    RDR = 0.000
         RATIOT=0.9845E-01 RATIO= 0.000
         MAX UN= 20.54      IEQ=    145 NODE       73 DOF    1 Y-DISPL.F
         MIN UN=-.1656E-07 IEQ=    39 NODE       20 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    4  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.1763E+06 RIMNOR= 0.000
         RENORM= 37.84      REMNOR=0.2131E-16 RATIO =0.1465E-01 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 58.02      RMMAX = 0.000
         RTSMAL=0.1000E-03 RMSMAL= 0.000
         RDT =0.1763E+06    RDR = 0.000
         RATIOT=0.1465E-01 RATIO= 0.000
         MAX UN= 4.729      IEQ=    165 NODE       83 DOF    1 Y-DISPL.F
         MIN UN=-.4769      IEQ=    191 NODE       96 DOF    1 Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    5  RNORM = 0.000      RMNORM= 0.000
         RINORM=0.1763E+06 RIMNOR= 0.000
         RENORM=0.1148E-01 REMNOR=0.1487E-16 RATIO =0.2552E-03 TOLER =0.1000E-03 NOT CONVERGED
         RFMAX = 58.02      RMMAX = 0.000
         RTSMAL=0.1000E-03 RMSMAL= 0.000

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RDT =0.1763E+06 RDR = 0.000
RATIOT=0.2552E-03 RATIO= 0.000
MAX UN=0.2307E-07 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
MIN UN=-.7985E-01 IEQ= 197 NODE 99 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1763E+06 RIMNOR= 0.000
RENORM=0.7114E-04 REMNOR=0.1185E-16 RATIO =0.2009E-04 TOLER =0.1000E-03 CONVERGED !
RFMAX = 58.02 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1763E+06 RDR = 0.000
RATIOT=0.2009E-04 RATIO= 0.000
MAX UN=0.3618E-02 IEQ= 169 NODE 85 DOF 1 Y-DISPL.F
MIN UN=-.2260E-07 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
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New Project
SOLUTION REACHED USING      6 ITERATIONS ON      40

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P R I N T   O U T   F O R   T I M E   S T E P   1   ( AT TIME   1.000   ) SUBINCREMENT 00001/00001

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PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

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	Y-DISPL.F	X-ROT. F
	02	04
1	2.0141480E-02	-1.4795175E-03
2	1.9845576E-02	-1.4795175E-03
3	1.9549673E-02	-1.4795156E-03
4	1.9253770E-02	-1.4795072E-03
5	1.8957871E-02	-1.4794847E-03
6	1.8661978E-02	-1.4794373E-03
7	1.8366098E-02	-1.4793515E-03
8	1.8070241E-02	-1.4792108E-03
9	1.7774419E-02	-1.4789957E-03
10	1.7478649E-02	-1.4786837E-03
11	1.7182954E-02	-1.4782495E-03
12	1.6887360E-02	-1.4776647E-03
13	1.6591900E-02	-1.4768979E-03
14	1.6296615E-02	-1.4759150E-03
15	1.6001551E-02	-1.4746785E-03
16	1.5706763E-02	-1.4731485E-03
17	1.5412236E-02	-1.4720842E-03
18	1.5117944E-02	-1.4708015E-03
19	1.4823932E-02	-1.4692726E-03
20	1.4530253E-02	-1.4674676E-03
21	1.4236966E-02	-1.4653553E-03
22	1.3944135E-02	-1.4628834E-03
23	1.3651841E-02	-1.4599848E-03
24	1.3360175E-02	-1.4566031E-03
25	1.3069236E-02	-1.4526920E-03
26	1.2779136E-02	-1.4482160E-03
27	1.2489989E-02	-1.4431499E-03
28	1.2201916E-02	-1.4374789E-03
29	1.1915040E-02	-1.4311988E-03
30	1.1629478E-02	-1.4243158E-03
31	1.1345352E-02	-1.4168465E-03
32	1.1062777E-02	-1.4088178E-03
33	1.0781860E-02	-1.4002648E-03
34	1.0502703E-02	-1.3912255E-03
35	1.0225401E-02	-1.3817351E-03
36	9.9500387E-03	-1.3718249E-03
37	9.6766976E-03	-1.3615225E-03
38	9.4054543E-03	-1.3508514E-03
39	9.1363804E-03	-1.3398312E-03
40	8.8695454E-03	-1.3284778E-03
41	8.6050120E-03	-1.3168031E-03
42	8.3428450E-03	-1.3048153E-03
43	8.0831064E-03	-1.2925188E-03
44	7.8258580E-03	-1.2799142E-03
45	7.5711628E-03	-1.2669986E-03
46	7.3190810E-03	-1.2537649E-03
47	7.0696787E-03	-1.2402027E-03
48	6.8230228E-03	-1.2262976E-03
49	6.5791837E-03	-1.2120315E-03
50	6.3382370E-03	-1.1973823E-03
51	6.1002593E-03	-1.1823242E-03
52	5.8653412E-03	-1.1668280E-03
53	5.6335642E-03	-1.1508602E-03
54	5.4050310E-03	-1.1343842E-03
55	5.1798471E-03	-1.1173597E-03
56	4.9581266E-03	-1.0997429E-03
57	4.7399926E-03	-1.0814865E-03
58	4.5255780E-03	-1.0625396E-03
59	4.3150264E-03	-1.0428481E-03
60	4.1084923E-03	-1.0223544E-03
61	3.9061421E-03	-1.0009978E-03
62	3.7081549E-03	-9.7871419E-04
63	3.5147175E-03	-9.5551508E-04
64	3.3260043E-03	-9.3148534E-04
65	3.1421736E-03	-9.0670195E-04
66	2.9633691E-03	-8.8123425E-04
67	2.7897214E-03	-8.5514412E-04
68	2.6213493E-03	-8.2848618E-04
69	2.4583616E-03	-8.0130801E-04
70	2.3008581E-03	-7.7365033E-04
71	2.1489311E-03	-7.4554726E-04
72	2.0026670E-03	-7.1702650E-04
73	1.8621425E-03	-6.8817717E-04
74	1.7274081E-03	-6.5914926E-04

75 1.5984851E-03 -6.3008565E-04
76 1.4753671E-03 -6.0112229E-04
77 1.3580209E-03 -5.7238862E-04
78 1.2463881E-03 -5.4400776E-04
79 1.1403865E-03 -5.1609688E-04
80 1.0399106E-03 -4.8876747E-04
81 9.4483364E-04 -4.6212561E-04
82 8.5500782E-04 -4.3627226E-04
83 7.7026576E-04 -4.1130355E-04
84 6.9042132E-04 -3.8731102E-04
85 6.1527046E-04 -3.6438188E-04
86 5.4459212E-04 -3.4259938E-04
87 4.7814903E-04 -3.2204199E-04
88 4.1568917E-04 -3.0277697E-04
89 3.5694870E-04 -2.8485518E-04
90 3.0165250E-04 -2.6831132E-04
91 2.4952801E-04 -2.5316805E-04
92 2.0029147E-04 -2.3943187E-04
93 1.5366182E-04 -2.2709729E-04
94 1.0936037E-04 -2.1614548E-04
95 6.7113667E-05 -2.0654304E-04
96 2.6656405E-05 -1.9824186E-04
97 -1.2265732E-05 -1.9118052E-04
98 -4.9893625E-05 -1.8528650E-04
99 -8.6452662E-05 -1.8047744E-04
100 -1.2215085E-04 -1.7666215E-04
101 -1.5717718E-04 -1.7374169E-04
102 -1.9170009E-04 -1.7160965E-04
103 -2.2586772E-04 -1.7015225E-04
104 -2.5979962E-04 -1.6924871E-04
105 -2.9359559E-04 -1.6877095E-04
106 -3.2732739E-04 -1.6858398E-04
107 -3.6103742E-04 -1.6854590E-04

New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
 C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC-QS
1 D 1.0000	1.0804E-02	-2.0141E-02	0.4062	0.1080	0.4062	4.021	ACTIVE	0.000	0.000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
2 D 1.0000	0.2262	-1.9846E-02	4.252	1.131	4.252	6.027	ACTIVE	0.000	-0.2000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
3 D 1.0000	0.4310	-1.9550E-02	8.101	2.155	8.101	8.027	ACTIVE	0.000	-0.4000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
4 D 1.0000	0.6358	-1.9254E-02	11.95	3.179	11.95	10.02	ACTIVE	0.000	-0.6000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
5 D 1.0000	0.8408	-1.8958E-02	15.81	4.204	15.81	12.01	ACTIVE	0.000	-0.8000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
6 D 1.0000	1.046	-1.8662E-02	19.66	5.230	19.66	13.99	ACTIVE	0.000	-1.000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
7 D 1.0000	1.251	-1.8366E-02	23.52	6.256	23.52	15.96	ACTIVE	0.000	-1.200	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
8 D 1.0000	1.457	-1.8070E-02	27.38	7.283	27.38	17.93	ACTIVE	0.000	-1.400	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
9 D 1.0000	1.662	-1.7774E-02	31.24	8.310	31.24	19.89	ACTIVE	0.000	-1.600	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
10 D 1.0000	1.867	-1.7479E-02	35.10	9.337	35.10	21.85	ACTIVE	0.000	-1.800	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
11 D 1.0000	2.073	-1.7183E-02	38.97	10.37	38.97	23.80	ACTIVE	0.000	-2.000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
12 D 1.0000	2.279	-1.6887E-02	42.83	11.39	42.83	25.75	ACTIVE	0.000	-2.200	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
13 D 1.0000	2.485	-1.6592E-02	46.70	12.42	46.70	27.69	ACTIVE	0.000	-2.400	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
14 D 1.0000	2.690	-1.6297E-02	50.57	13.45	50.57	29.63	ACTIVE	0.000	-2.600	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
15 D 1.0000	2.896	-1.6002E-02	54.44	14.48	54.44	31.56	ACTIVE	0.000	-2.800	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
16 D 1.0000	3.102	-1.5707E-02	58.31	15.51	58.31	33.48	ACTIVE	0.000	-3.000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
17 D 1.0000	3.308	-1.5412E-02	62.18	16.54	62.18	35.40	ACTIVE	0.000	-3.200	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
18 D 1.0000	3.514	-1.5118E-02	66.06	17.57	66.06	37.32	ACTIVE	0.000	-3.400	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
19 D 1.0000	3.720	-1.4824E-02	69.93	18.60	69.93	39.23	ACTIVE	0.000	-3.600	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
20 D 1.0000	3.926	-1.4530E-02	73.80	19.63	73.80	41.14	ACTIVE	0.000	-3.800	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
21 D 1.0000	10.04	-1.4237E-02	77.68	50.20	77.68	50.20	ACTIVE	0.000	-4.000	0.000	
0.0000	0.0000	0.0000	0.0000	0.0000	2.000	2.000	Ala_76024_15_L_0			0.000	
22 D 1.0000	10.57	-1.3944E-02	81.55	52.87	81.55	52.87	ACTIVE	0.000	-4.200	0.000	

1.000	1.000	52.87	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	11.11	-1.3652E-02	85.43	55.54	85.43	55.54	ACTIVE	0.000	-4.400	0.000
1.000	1.000	55.54	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	11.64	-1.3360E-02	89.30	58.21	89.30	58.21	ACTIVE	0.000	-4.600	0.000
1.000	1.000	58.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	12.18	-1.3069E-02	93.18	60.88	93.18	60.88	ACTIVE	0.000	-4.800	0.000
1.000	1.000	60.88	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	12.71	-1.2779E-02	97.05	63.55	97.05	63.55	ACTIVE	0.000	-5.000	0.000
1.000	1.000	63.55	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	13.24	-1.2490E-02	100.9	66.22	100.9	66.22	ACTIVE	0.000	-5.200	0.000
1.000	1.000	66.22	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	13.78	-1.2202E-02	104.8	68.89	104.8	68.89	ACTIVE	0.000	-5.400	0.000
1.000	1.000	68.89	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	14.31	-1.1915E-02	108.7	71.56	108.7	71.56	ACTIVE	0.000	-5.600	0.000
1.000	1.000	71.56	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	14.85	-1.1629E-02	112.6	74.23	112.6	74.23	ACTIVE	0.000	-5.800	0.000
1.000	1.000	74.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	15.45	-1.1345E-02	115.3	76.12	115.3	76.12	ACTIVE	0.000	-6.000	1.127
1.000	1.000	76.12	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	16.11	-1.1063E-02	117.2	77.42	117.2	77.42	ACTIVE	0.000	-6.200	3.114
1.000	1.000	77.42	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	16.76	-1.0782E-02	119.1	78.72	119.1	78.72	ACTIVE	0.000	-6.400	5.101
1.000	1.000	78.72	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	17.42	-1.0503E-02	121.0	80.01	121.0	80.01	ACTIVE	0.000	-6.600	7.089
1.000	1.000	80.01	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	18.08	-1.0225E-02	122.8	81.31	122.8	81.31	ACTIVE	0.000	-6.800	9.076
1.000	1.000	81.31	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	18.73	-9.9500E-03	124.7	82.61	124.7	82.61	ACTIVE	0.000	-7.000	11.06
1.000	1.000	82.61	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	19.39	-9.6767E-03	126.6	83.90	126.6	83.90	ACTIVE	0.000	-7.200	13.05
1.000	1.000	83.90	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	20.05	-9.4055E-03	128.5	85.20	128.5	85.20	ACTIVE	0.000	-7.400	15.04
1.000	1.000	85.20	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	20.70	-9.1364E-03	130.4	86.50	130.4	86.50	ACTIVE	0.000	-7.600	17.03
1.000	1.000	86.50	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	21.36	-8.8695E-03	132.2	87.79	132.2	87.79	ACTIVE	0.000	-7.800	19.01
1.000	1.000	87.79	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	22.02	-8.6050E-03	134.1	89.08	134.1	89.08	ACTIVE	0.000	-8.000	21.00
1.000	1.000	89.08	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.67	-8.3428E-03	136.0	90.38	136.0	90.38	ACTIVE	0.000	-8.200	22.99
1.000	1.000	90.38	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	23.33	-8.0831E-03	137.9	91.67	137.9	91.67	ACTIVE	0.000	-8.400	24.97
1.000	1.000	91.67	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.98	-7.8259E-03	139.7	92.96	139.7	92.96	ACTIVE	0.000	-8.600	26.96
1.000	1.000	92.96	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	24.64	-7.5712E-03	141.6	94.25	141.6	94.25	ACTIVE	0.000	-8.800	28.95
1.000	1.000	94.25	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	25.32	-7.3191E-03	143.7	95.67	143.7	95.67	ACTIVE	0.000	-9.000	30.94
1.000	1.000	95.67	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	26.00	-7.0697E-03	145.7	97.10	145.7	97.10	ACTIVE	0.000	-9.200	32.92
1.000	1.000	97.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	26.69	-6.8230E-03	147.8	98.52	147.8	98.52	ACTIVE	0.000	-9.400	34.91
1.000	1.000	98.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	27.37	-6.5792E-03	149.9	99.94	149.9	99.94	ACTIVE	0.000	-9.600	36.90
1.000	1.000	99.94	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	28.05	-6.3382E-03	151.9	101.4	151.9	101.4	ACTIVE	0.000	-9.800	38.89
1.000	1.000	101.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	28.73	-6.1003E-03	154.0	102.8	154.0	102.8	ACTIVE	0.000	-10.000	40.87
1.000	1.000	102.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	29.41	-5.8653E-03	156.0	104.2	156.0	104.2	ACTIVE	0.000	-10.200	42.86
1.000	1.000	104.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	30.09	-5.6336E-03	158.1	105.6	158.1	105.6	ACTIVE	0.000	-10.40	44.85
1.000	1.000	150.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.76	-5.4050E-03	160.1	107.0	160.1	107.0	ACTIVE	0.000	-10.60	46.83
1.000	1.000	153.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.44	-5.1798E-03	162.1	108.4	162.1	108.4	ACTIVE	0.000	-10.80	48.82
1.000	1.000	157.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	32.12	-4.9581E-03	164.1	109.8	164.1	109.8	ACTIVE	0.000	-11.00	50.81
1.000	1.000	160.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	32.79	-4.7400E-03	166.2	111.2	166.2	111.2	ACTIVE	0.000	-11.20	52.80
1.000	1.000	164.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	33.47	-4.5256E-03	168.2	112.6	168.2	112.6	ACTIVE	0.000	-11.40	54.78
1.000	1.000	167.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	34.14	-4.3150E-03	170.2	113.9	170.2	113.9	ACTIVE	0.000	-11.60	56.77
1.000	1.000	170.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	34.82	-4.1085E-03	172.2	115.3	172.2	115.3	ACTIVE	0.000	-11.80	58.76
1.000	1.000	174.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	35.49	-3.9061E-03	174.2	116.7	174.2	116.7	ACTIVE	0.000	-12.00	60.75
1.000	1.000	177.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.20	-3.7082E-03	176.3	83.29	176.3	88.20	ACTIVE	0.000	-12.20	62.73
1.000	1.000	146.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.86	-3.5147E-03	178.6	84.57	178.6	89.21	ACTIVE	0.000	-12.40	64.72
1.000	1.000	149.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	30.51	-3.3260E-03	180.9	85.85	180.9	90.22	ACTIVE	0.000	-12.60	66.71
1.000	1.000	152.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	31.16	-3.1422E-03	183.2	87.12	183.2	91.23	ACTIVE	0.000	-12.80	68.70
1.000	1.000	155.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	31.82	-2.9634E-03	185.5	88.40	185.5	92.24	ACTIVE	0.000	-13.00	70.68
1.000	1.000	159.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	32.47	-2.7897E-03	187.8	89.67	187.8	93.25	ACTIVE	0.000	-13.20	72.67
1.000	1.000	162.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	33.12	-2.6213E-03	190.1	90.94	190.1	94.27	ACTIVE	0.000	-13.40	74.66
1.000	1.000	165.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	33.77	-2.4584E-03	192.4	92.21	192.4	95.28	ACTIVE	0.000	-13.60	76.64
1.000	1.000	168.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	34.42	-2.3009E-03	194.6	93.48	194.6	96.29	ACTIVE	0.000	-13.80	78.63
1.000	1.000	172.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	35.07	-2.1489E-03	196.9	94.75	196.9	97.30	ACTIVE	0.000	-14.00	80.62
1.000	1.000	175.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	22.21	-2.0027E-03	199.3	28.44	199.3	98.40	ACTIVE	0.000	-14.20	82.61
1.000	1.000	111.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	22.87	-1.8621E-03	202.0	29.76	202.0	99.61	ACTIVE	0.000	-14.40	84.59
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	23.53	-1.7274E-03	204.7	31.09	204.7	100.8	ACTIVE	0.000	-14.60	86.58
1.000	1.000	117.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	24.20	-1.5985E-03	207.3	32.41	207.3	102.0	UL-RL 1.2392E+05		-14.80	88.57
1.000	1.000	121.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.86	-1.4754E-03	210.0	33.73	210.0	103.3	UL-RL 1.2392E+05		-15.00	90.56
1.000	1.000	124.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	25.52	-1.3580E-03	212.6	35.05	212.6	104.5	UL-RL 1.2392E+05		-15.20	92.54
1.000	1.000	127.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	26.18	-1.2464E-03	215.3	36.37	215.3	105.7	UL-RL 1.2392E+05		-15.40	94.53
1.000	1.000	130.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.84	-1.1404E-03	218.0	37.68	218.0	106.9	UL-RL 1.2392E+05		-15.60	96.52
1.000	1.000	134.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.50	-1.0399E-03	220.6	39.00	220.6	108.1	UL-RL 1.2392E+05		-15.80	98.50
1.000	1.000	137.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	28.16	-9.4483E-04	223.3	40.31	223.3	109.3	UL-RL 1.2392E+05		-16.00	100.5
1.000	1.000	140.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.82	-8.5501E-04	225.9	41.63	225.9	110.6	UL-RL 1.2392E+05		-16.20	102.5
1.000	1.000	144.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.48	-7.7027E-04	228.5	42.94	228.5	111.8	UL-RL 1.2392E+05		-16.40	104.5
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	30.14	-6.9042E-04	231.2	44.25	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	150.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.78	-6.1527E-04	233.6	45.47	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	153.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.67	-5.4459E-04	236.1	47.94	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	158.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.96	-4.7815E-04	238.6	57.39	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	169.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	36.15	-4.1569E-04	241.0	66.35	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	180.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.25	-3.5695E-04	243.5	74.85	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	191.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.26	-3.0165E-04	245.9	82.93	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	201.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	42.19	-2.4953E-04	248.4	90.61	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	211.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	44.06	-2.0029E-04	250.9	97.93	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	220.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.85	-1.5366E-04	253.3	104.9	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	229.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.59	-1.0936E-04	255.8	111.6	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	238.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.28	-6.7114E-05	258.2	118.1	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	246.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.75	-2.6656E-05	260.7	123.5	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	253.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.96	1.2266E-05	263.2	127.5	263.2	130.3	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	259.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	53.15	4.9894E-05	265.6	131.5	265.6	132.5	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	265.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	54.16	8.6453E-05	268.1	134.5	268.1	135.1	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	270.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	55.12	1.2215E-04	270.6	137.3	270.6	137.7	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	275.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	56.07	1.5718E-04	273.0	140.1	273.0	140.3	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	280.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	57.02	1.9170E-04	275.5	142.9	275.5	142.9	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	285.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.95	2.2587E-04	278.0	145.6	278.0	145.6	V-C	4.1306E+04	-20.40	144.2
1.000	1.000	289.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.88	2.5980E-04	280.4	148.2	280.4	148.2	V-C	4.1306E+04	-20.60	146.2
1.000	1.000	294.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.80	2.9360E-04	282.9	150.8	282.9	150.8	V-C	4.1306E+04	-20.80	148.2
1.000	1.000	299.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.72	3.2733E-04	285.4	153.4	285.4	153.4	V-C	4.1306E+04	-21.00	150.2
1.000	1.000	303.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.82	3.6104E-04	287.8	156.1	287.8	156.1	V-C	4.1306E+04	-21.20	152.2
1.000	1.000	308.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                                                                                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohes_a	MAX-H-P Cohes_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	1.234	1.4237E-02	0.000	6.171	0.000	6.171	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	6.171	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	3.043	1.3944E-02	3.800	15.21	3.800	15.21	PASSIVE	0.000	-4.200	0.000	
1.000	1.000	15.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.852	1.3652E-02	7.600	24.26	7.600	24.26	PASSIVE	0.000	-4.400	0.000	
1.000	1.000	24.26	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.661	1.3360E-02	11.40	33.30	11.40	33.30	PASSIVE	0.000	-4.600	0.000	
1.000	1.000	33.30	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.469	1.3069E-02	15.20	42.35	15.20	42.35	PASSIVE	0.000	-4.800	0.000	
1.000	1.000	42.35	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.28	1.2779E-02	19.00	51.39	19.00	51.39	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	51.39	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.09	1.2490E-02	22.80	60.43	22.80	60.43	PASSIVE	0.000	-5.200	0.000	
1.000	1.000	60.43	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.90	1.2202E-02	26.60	69.48	26.60	69.48	PASSIVE	0.000	-5.400	0.000	
1.000	1.000	69.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.70	1.1915E-02	30.40	78.52	30.40	78.52	PASSIVE	0.000	-5.600	0.000
1.000	1.000	78.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	17.51	1.1629E-02	34.20	87.57	34.20	87.57	PASSIVE	0.000	-5.800	0.000
1.000	1.000	87.57	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	19.32	1.1345E-02	38.00	96.61	38.00	96.61	PASSIVE	0.000	-6.000	0.000
1.000	1.000	96.61	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	20.80	1.1063E-02	40.59	102.8	40.59	102.8	PASSIVE	0.000	-6.200	1.211
1.000	1.000	104.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.31	1.0782E-02	42.38	103.3	42.38	103.3	V-C	7167.	-6.400	3.223
1.000	1.000	106.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	21.48	1.0503E-02	44.16	102.2	44.16	102.2	V-C	7167.	-6.600	5.236
1.000	1.000	107.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	21.66	1.0225E-02	45.95	101.1	45.95	101.1	V-C	7167.	-6.800	7.249
1.000	1.000	108.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	21.84	9.9500E-03	47.74	99.94	47.74	99.94	V-C	7167.	-7.000	9.261
1.000	1.000	109.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	22.02	9.6767E-03	49.53	98.84	49.53	98.84	V-C	7167.	-7.200	11.27
1.000	1.000	110.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	22.21	9.4055E-03	51.31	97.75	51.31	97.75	V-C	7167.	-7.400	13.29
1.000	1.000	111.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	22.40	9.1364E-03	53.10	96.68	53.10	96.68	V-C	7167.	-7.600	15.30
1.000	1.000	112.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	22.59	8.8695E-03	54.89	95.62	54.89	95.62	V-C	7167.	-7.800	17.31
1.000	1.000	112.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	22.78	8.6050E-03	56.68	94.58	56.68	94.58	V-C	7167.	-8.000	19.32
1.000	1.000	113.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.98	8.3428E-03	58.46	93.55	58.46	93.55	V-C	7167.	-8.200	21.34
1.000	1.000	114.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	23.18	8.0831E-03	60.25	92.54	60.25	92.54	V-C	7167.	-8.400	23.35
1.000	1.000	115.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.38	7.8259E-03	62.04	91.55	62.04	91.55	V-C	7167.	-8.600	25.36
1.000	1.000	116.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	23.59	7.5712E-03	63.82	90.57	63.82	90.57	V-C	7167.	-8.800	27.38
1.000	1.000	117.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	23.80	7.3191E-03	65.61	89.62	65.61	89.62	V-C	7167.	-9.000	29.39
1.000	1.000	119.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	24.02	7.0697E-03	67.40	88.68	67.40	88.68	V-C	7167.	-9.200	31.40
1.000	1.000	120.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	24.23	6.8230E-03	69.19	87.76	69.19	87.76	V-C	7167.	-9.400	33.41
1.000	1.000	121.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	24.46	6.5792E-03	70.97	86.86	70.97	86.86	V-C	7167.	-9.600	35.43
1.000	1.000	122.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	24.68	6.3382E-03	72.76	85.98	72.76	85.98	V-C	7167.	-9.800	37.44
1.000	1.000	123.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	24.91	6.1003E-03	74.55	85.12	74.55	85.12	V-C	7167.	-10.000	39.45
1.000	1.000	124.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	25.15	5.8653E-03	76.34	84.28	76.34	84.28	V-C	7167.	-10.200	41.46
1.000	1.000	125.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	25.39	5.6336E-03	78.12	83.47	78.12	83.47	V-C	7167.	-10.400	43.48
1.000	1.000	126.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	25.63	5.4050E-03	79.91	82.68	79.91	82.68	V-C	7167.	-10.600	45.49
1.000	1.000	128.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	25.88	5.1798E-03	81.70	81.91	81.70	81.91	V-C	7167.	-10.800	47.50
1.000	1.000	129.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	26.14	4.9581E-03	83.48	81.17	83.48	81.17	V-C	7167.	-11.000	49.52
1.000	1.000	130.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	26.40	4.7400E-03	85.27	80.45	85.27	80.45	V-C	7167.	-11.200	51.53
1.000	1.000	132.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	26.66	4.5256E-03	87.06	79.76	87.06	79.76	V-C	7167.	-11.400	53.54
1.000	1.000	133.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	26.93	4.3150E-03	88.85	79.10	88.85	79.10	V-C	7167.	-11.600	55.55
1.000	1.000	134.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	27.21	4.1085E-03	90.63	78.46	90.63	78.46	V-C	7167.	-11.80	57.57
1.000	1.000	136.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	27.49	3.9061E-03	92.42	77.86	92.42	77.86	V-C	7167.	-12.00	59.58
1.000	1.000	137.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	40.03	3.7082E-03	94.33	138.5	94.33	138.5	V-C	2.3669E+04	-12.20	61.59
1.000	1.000	200.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.71	3.5147E-03	96.42	135.0	96.42	135.0	V-C	2.3669E+04	-12.40	63.60
1.000	1.000	198.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	39.42	3.3260E-03	98.50	131.5	98.50	131.5	V-C	2.3669E+04	-12.60	65.62
1.000	1.000	197.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	39.15	3.1422E-03	100.6	128.1	100.6	128.1	V-C	2.3669E+04	-12.80	67.63
1.000	1.000	195.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	38.91	2.9634E-03	102.7	124.9	102.7	124.9	V-C	2.3669E+04	-13.00	69.64
1.000	1.000	194.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.69	2.7897E-03	104.8	121.8	104.8	121.8	V-C	2.3669E+04	-13.20	71.65
1.000	1.000	193.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	38.49	2.6213E-03	106.9	118.8	106.9	118.8	V-C	2.3669E+04	-13.40	73.67
1.000	1.000	192.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	38.33	2.4584E-03	108.9	115.9	108.9	115.9	V-C	2.3669E+04	-13.60	75.68
1.000	1.000	191.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.18	2.3009E-03	111.0	113.2	111.0	113.2	V-C	2.3669E+04	-13.80	77.69
1.000	1.000	190.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	38.07	2.1489E-03	113.1	110.6	113.1	110.6	V-C	2.3669E+04	-14.00	79.71
1.000	1.000	190.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	40.94	2.0027E-03	115.4	123.0	115.4	123.0	V-C	3.1023E+04	-14.20	81.72
1.000	1.000	204.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	40.71	1.8621E-03	117.8	119.8	117.8	119.8	V-C	3.1023E+04	-14.40	83.73
1.000	1.000	203.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	40.51	1.7274E-03	120.3	116.8	120.3	116.8	V-C	3.1023E+04	-14.60	85.74
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	40.36	1.5985E-03	122.8	114.0	122.8	114.0	UL-RL	9.3069E+04	-14.80	87.76
1.000	1.000	201.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.24	1.4754E-03	125.3	111.4	125.3	111.4	UL-RL	9.3069E+04	-15.00	89.77
1.000	1.000	201.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	40.15	1.3580E-03	127.8	109.0	127.8	109.0	UL-RL	9.3069E+04	-15.20	91.78
1.000	1.000	200.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	40.10	1.2464E-03	130.3	106.7	130.3	106.7	UL-RL	9.3069E+04	-15.40	93.79
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	40.09	1.1404E-03	132.8	104.6	132.8	104.6	UL-RL	9.3069E+04	-15.60	95.81
1.000	1.000	200.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	40.11	1.0399E-03	135.3	102.7	135.3	102.7	UL-RL	9.3069E+04	-15.80	97.82
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	40.16	9.4483E-04	137.7	101.0	137.7	101.0	UL-RL	9.3069E+04	-16.00	99.83
1.000	1.000	200.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	40.25	8.5501E-04	140.2	99.39	140.2	99.39	UL-RL	9.3069E+04	-16.20	101.8
1.000	1.000	201.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.36	7.7027E-04	142.7	97.96	142.7	97.96	UL-RL	9.3069E+04	-16.40	103.9
1.000	1.000	201.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	40.51	6.9042E-04	145.2	96.69	145.2	96.70	UL-RL	9.3069E+04	-16.60	105.9
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	40.69	6.1527E-04	147.7	95.57	147.7	95.58	UL-RL	9.3069E+04	-16.80	107.9
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	40.90	5.4459E-04	150.2	94.58	150.2	94.59	UL-RL	9.3069E+04	-17.00	109.9
1.000	1.000	204.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	41.13	4.7815E-04	152.7	93.73	152.7	93.74	UL-RL	9.3069E+04	-17.20	111.9
1.000	1.000	205.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	41.38	4.1569E-04	155.2	92.99	155.2	93.01	UL-RL	9.3069E+04	-17.40	113.9
1.000	1.000	206.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	41.66	3.5695E-04	157.6	92.38	157.6	92.39	UL-RL	9.3069E+04	-17.60	115.9
1.000	1.000	208.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	41.96	3.0165E-04	160.1	91.87	160.1	91.89	UL-RL	9.3069E+04	-17.80	117.9

1.000	1.000	209.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.28	2.4953E-04	162.6	91.46	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	211.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.62	2.0029E-04	165.1	91.14	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	213.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.70	1.5366E-04	167.6	89.50	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.61	1.0936E-04	170.1	87.04	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	213.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.55	6.7114E-05	172.6	84.73	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	212.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.52	2.6656E-05	175.1	82.57	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.51	-1.2266E-05	177.5	80.52	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.52	-4.9894E-05	180.0	78.58	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.56	-8.6453E-05	182.5	76.71	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	212.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.60	-1.2215E-04	185.0	74.92	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	213.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.65	-1.5718E-04	187.5	73.18	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	213.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.71	-1.9170E-04	190.0	71.47	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	213.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.78	-2.2587E-04	192.5	69.80	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	213.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.85	-2.5980E-04	195.0	68.14	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	214.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	42.93	-2.9360E-04	197.4	66.50	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	214.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	43.00	-3.2733E-04	199.9	64.86	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	215.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.54	-3.6104E-04	202.4	63.22	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	215.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					


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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58           |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.08037E-02	-1.08037E-02	2.48542E-11	2.16074E-03
2	0.23703	-0.23703	-2.16074E-03	4.95659E-02
3	0.66799	-0.66799	-4.95659E-02	0.18316
4	1.3038	-1.3038	-0.18316	0.44393
5	2.1447	-2.1447	-0.44393	0.87287
6	3.1906	-3.1906	-0.87287	1.5110
7	4.4418	-4.4418	-1.5110	2.3993
8	5.8983	-5.8983	-2.3993	3.5790
9	7.5602	-7.5602	-3.5790	5.0911
10	9.4277	-9.4277	-5.0911	6.9766
11	11.501	-11.501	-6.9766	9.2767
12	13.780	-13.780	-9.2767	12.033
13	16.264	-16.264	-12.033	15.285
14	18.954	-18.954	-15.285	19.076
15	21.851	-21.851	-19.076	23.446

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                                                                                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP    91
C U R R E N T   T I M E   I S   1.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.953	-24.953	-23.446	28.437
2	28.261	-28.261	-28.437	34.089
3	31.775	-31.775	-34.089	40.444
4	35.496	-35.496	-40.444	47.543
5	39.422	-39.422	-47.543	55.428
6	48.228	-48.228	-55.428	65.073
7	55.759	-55.759	-65.073	76.225
8	62.015	-62.015	-76.225	88.628
9	66.997	-66.997	-88.628	102.03
10	70.703	-70.703	-102.03	116.17
11	73.135	-73.135	-116.17	130.80
12	74.292	-74.292	-130.80	145.65
13	74.174	-74.174	-145.65	160.49
14	72.781	-72.781	-160.49	175.04
15	70.113	-70.113	-175.04	189.07
16	66.240	-66.240	-189.07	202.32
17	61.550	-61.550	-202.32	214.63
18	57.004	-57.004	-214.63	226.03
19	52.941	-52.941	-226.03	236.61
20	49.357	-49.357	-236.61	246.49
21	46.251	-46.251	-246.49	255.74
22	43.619	-43.619	-255.74	264.46
23	41.458	-41.458	-264.46	272.75
24	39.766	-39.766	-272.75	280.70
25	38.540	-38.540	-280.70	288.41
26	37.776	-37.776	-288.41	295.97
27	37.470	-37.470	-295.97	303.46
28	37.620	-37.620	-303.46	310.99
29	38.222	-38.222	-310.99	318.63
30	39.272	-39.272	-318.63	326.48
31	40.793	-40.793	-326.48	334.64
32	42.782	-42.782	-334.64	343.20
33	45.234	-45.234	-343.20	352.25
34	48.145	-48.145	-352.25	361.88
35	51.510	-51.510	-361.88	372.18
36	55.323	-55.323	-372.18	383.24
37	59.581	-59.581	-383.24	395.16
38	64.277	-64.277	-395.16	408.01
39	69.407	-69.407	-408.01	421.89
40	74.965	-74.965	-421.89	436.89
41	80.945	-80.945	-436.89	453.08
42	87.342	-87.342	-453.08	470.55
43	94.151	-94.151	-470.55	489.38
44	101.36	-101.36	-489.38	509.65
45	108.98	-108.98	-509.65	531.44
46	116.98	-116.98	-531.44	554.84
47	106.16	-106.16	-554.84	576.07
48	96.302	-96.302	-576.07	595.33
49	87.392	-87.392	-595.33	612.81
50	79.402	-79.402	-612.81	628.69
51	72.309	-72.309	-628.69	643.15
52	66.088	-66.088	-643.15	656.37
53	60.714	-60.714	-656.37	668.51
54	56.160	-56.160	-668.51	679.74
55	52.400	-52.400	-679.74	690.22
56	49.408	-49.408	-690.22	700.11
57	30.680	-30.680	-700.11	706.24
58	12.843	-12.843	-706.24	708.81
59	-4.1379	4.1379	-708.81	707.98
60	-20.301	20.301	-707.98	703.92
61	-35.681	35.681	-703.92	696.79
62	-50.315	50.315	-696.79	686.72
63	-64.239	64.239	-686.72	673.88
64	-77.487	77.487	-673.88	658.38
65	-90.095	90.095	-658.38	640.36
66	-102.10	102.10	-640.36	619.94
67	-113.52	113.52	-619.94	597.23
68	-124.41	124.41	-597.23	572.35
69	-134.78	134.78	-572.35	545.40
70	-144.69	144.69	-545.40	516.46

71	-153.92	153.92	-516.46	485.67
72	-161.08	161.08	-485.67	453.46
73	-166.32	166.32	-453.46	420.19
74	-169.73	169.73	-420.19	386.25
75	-171.44	171.44	-386.25	351.96
76	-171.53	171.53	-351.96	317.65
77	-170.10	170.10	-317.65	283.63
78	-166.94	166.94	-283.63	250.25
79	-161.95	161.95	-250.25	217.85
80	-155.22	155.22	-217.85	186.81
81	-146.98	146.98	-186.81	157.41
82	-137.54	137.54	-157.41	129.91
83	-126.91	126.91	-129.91	104.52
84	-115.31	115.31	-104.52	81.463
85	-102.79	102.79	-81.463	60.904
86	-89.377	89.377	-60.904	43.028
87	-75.073	75.073	-43.028	28.013
88	-59.901	59.901	-28.013	16.033
89	-43.877	43.877	-16.033	7.2574
90	-27.004	27.004	-7.2574	1.8566
91	-9.2836	9.2836	-1.8566	-2.05098E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1600E+07  RIMNOR=0.3123E+08
            RENORM= 12.07     REMNOR=0.1185E-16  RATIO =0.2747E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 171.5     RMMAX = 708.8
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1600E+07  RDR   =0.3123E+08
            RATIO=0.2747E-02  RATIO= 0.000
            MAX UN=0.1201E-08  IEQ=   20 NODE    10 DOF   2   X-ROT. F
            MIN UN=-.5312     IEQ=  167 NODE   84 DOF   1   Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1600E+07  RIMNOR=0.3123E+08
            RENORM=0.4272E-14  REMNOR=0.1385E-16  RATIO =0.5167E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.5     RMMAX = 708.8
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1600E+07  RDR   =0.3123E+08
            RATIO=0.5167E-10  RATIO= 0.000
            MAX UN=0.2386E-07  IEQ=   33 NODE    17 DOF   1   Y-DISPL.F
            MIN UN=-.2401E-07  IEQ=   31 NODE    16 DOF   1   Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
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New Project
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000) SUBINCREMENT 0001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F	X-ROT. F
	02	04
1	2.0128465E-02	-1.4800260E-03
2	1.9832460E-02	-1.4800260E-03
3	1.9536455E-02	-1.4800242E-03
4	1.9240451E-02	-1.4800159E-03
5	1.8944449E-02	-1.4799930E-03
6	1.8648455E-02	-1.4799448E-03
7	1.8352474E-02	-1.4798577E-03
8	1.8056516E-02	-1.4797151E-03
9	1.7760593E-02	-1.4794974E-03
10	1.7464723E-02	-1.4791823E-03
11	1.7168928E-02	-1.4787443E-03
12	1.6873236E-02	-1.4781553E-03
13	1.6577678E-02	-1.4773840E-03
14	1.6282296E-02	-1.4763964E-03
15	1.5987137E-02	-1.4751555E-03
16	1.5692254E-02	-1.4736212E-03
17	1.5397633E-02	-1.4725549E-03
18	1.5103246E-02	-1.4712709E-03
19	1.4809141E-02	-1.4697414E-03
20	1.4515368E-02	-1.4679370E-03
21	1.4221986E-02	-1.4658267E-03
22	1.3929061E-02	-1.4633581E-03
23	1.3636672E-02	-1.4604637E-03
24	1.3344910E-02	-1.4570865E-03
25	1.3053874E-02	-1.4531799E-03
26	1.2763675E-02	-1.4487080E-03
27	1.2474430E-02	-1.4436452E-03
28	1.2186258E-02	-1.4379763E-03
29	1.1899282E-02	-1.4316968E-03
30	1.1613621E-02	-1.4248125E-03
31	1.1329396E-02	-1.4173398E-03
32	1.1046722E-02	-1.4093053E-03
33	1.0765709E-02	-1.4007440E-03
34	1.0486457E-02	-1.3916933E-03
35	1.0209063E-02	-1.3821886E-03
36	9.9336114E-03	-1.3722609E-03
37	9.6601851E-03	-1.3619375E-03
38	9.3888612E-03	-1.3512419E-03
39	9.1197119E-03	-1.3401935E-03
40	8.8528076E-03	-1.3288083E-03
41	8.5882116E-03	-1.3170979E-03
42	8.3259895E-03	-1.3050706E-03
43	8.0662042E-03	-1.2927306E-03
44	7.8089181E-03	-1.2800787E-03
45	7.5541950E-03	-1.2671117E-03
46	7.3020961E-03	-1.2538230E-03
47	7.0526880E-03	-1.2402020E-03
48	6.8060384E-03	-1.2262346E-03
49	6.5622184E-03	-1.2119028E-03
50	6.3213042E-03	-1.1971853E-03
51	6.0833730E-03	-1.1820565E-03
52	5.8485156E-03	-1.1664880E-03
53	5.6168140E-03	-1.1504469E-03
54	5.3883707E-03	-1.1338975E-03
55	5.1632915E-03	-1.1168005E-03
56	4.9416899E-03	-1.0991130E-03
57	4.7236887E-03	-1.0807887E-03
58	4.5094202E-03	-1.0617782E-03
59	4.2990267E-03	-1.0420286E-03
60	4.0926618E-03	-1.0214837E-03
61	3.8904902E-03	-1.0000842E-03
62	3.6926892E-03	-9.7776777E-04
63	3.4994435E-03	-9.5454605E-04
64	3.3109256E-03	-9.3050274E-04
65	3.1272921E-03	-9.0571378E-04
66	2.9486852E-03	-8.8024758E-04
67	2.7752341E-03	-8.5416523E-04
68	2.6070566E-03	-8.2752069E-04
69	2.4442602E-03	-8.0036100E-04
70	2.2869438E-03	-7.7272647E-04
71	2.1351990E-03	-7.4465091E-04
72	1.9891110E-03	-7.1616185E-04
73	1.8487559E-03	-6.8734777E-04
74	1.7141837E-03	-6.5835758E-04

75 1.5854152E-03 -6.2933317E-04
76 1.4624437E-03 -6.0040968E-04
77 1.3452360E-03 -5.7171578E-04
78 1.2337339E-03 -5.4337400E-04
79 1.1278551E-03 -5.1550098E-04
80 1.0274948E-03 -4.8820778E-04
81 9.3252633E-04 -4.6160017E-04
82 8.4280235E-04 -4.3577890E-04
83 7.5815595E-04 -4.1083994E-04
84 6.7840145E-04 -3.8687480E-04
85 6.0333529E-04 -3.6397074E-04
86 5.3273686E-04 -3.4221106E-04
87 4.6636933E-04 -3.2167434E-04
88 4.0398110E-04 -3.0242795E-04
89 3.4530874E-04 -2.8452284E-04
90 2.9007749E-04 -2.6799383E-04
91 2.3801516E-04 -2.5286368E-04
92 1.8883832E-04 -2.3913901E-04
93 1.4226622E-04 -2.2681441E-04
94 9.8020468E-05 -2.1587118E-04
95 5.5827877E-05 -2.0627601E-04
96 1.5423391E-05 -1.9798093E-04
97 -2.3447082E-05 -1.9092464E-04
98 -6.1024223E-05 -1.8503471E-04
99 -9.7533240E-05 -1.8022889E-04
100 -1.3318198E-04 -1.7641611E-04
101 -1.6815930E-04 -1.7349751E-04
102 -2.0263351E-04 -1.7136680E-04
103 -2.3675267E-04 -1.6991029E-04
104 -2.7063624E-04 -1.6900728E-04
105 -3.0438395E-04 -1.6852979E-04
106 -3.3806753E-04 -1.6834293E-04
107 -3.7172936E-04 -1.6830487E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O. 1

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0_L          :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 2.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR	FORCE UFACTOR	DISPL-Y Peq	VERTICAL-P Su_a	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
QSL	ZD	ZPL	Kz								
1 D	0.000	-2.0128E-02	0.000	0.000	0.4062	4.021	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2408	-1.9832E-02	3.800	1.204	4.252	6.027	UL-RL	1.4407E+04	-0.2000	0.000	
1.000	1.000	1.204	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.4436	-1.9536E-02	7.600	2.218	8.101	8.027	UL-RL	1.4407E+04	-0.4000	0.000	
1.000	1.000	2.218	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.6463	-1.9240E-02	11.40	3.232	11.95	10.02	UL-RL	1.4407E+04	-0.6000	0.000	
1.000	1.000	3.232	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.8490	-1.8944E-02	15.20	4.245	15.81	12.01	UL-RL	1.4407E+04	-0.8000	0.000	
1.000	1.000	4.245	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.052	-1.8648E-02	19.00	5.258	19.66	13.99	UL-RL	1.4407E+04	-1.000	0.000	
1.000	1.000	5.258	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.254	-1.8352E-02	22.80	6.271	23.52	15.96	UL-RL	1.4407E+04	-1.200	0.000	
1.000	1.000	6.271	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.457	-1.8057E-02	26.60	7.284	27.38	17.93	UL-RL	1.4407E+04	-1.400	0.000	
1.000	1.000	7.284	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	1.660	-1.7761E-02	30.40	8.298	31.24	19.89	UL-RL	1.4407E+04	-1.600	0.000	
1.000	1.000	8.298	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	1.862	-1.7465E-02	34.20	9.311	35.10	21.85	UL-RL	1.4407E+04	-1.800	0.000	
1.000	1.000	9.311	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.065	-1.7169E-02	38.00	10.32	38.97	23.80	UL-RL	1.4407E+04	-2.000	0.000	
1.000	1.000	10.32	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.267	-1.6873E-02	41.80	11.34	42.83	25.75	UL-RL	1.4407E+04	-2.200	0.000	
1.000	1.000	11.34	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	2.470	-1.6578E-02	45.60	12.35	46.70	27.69	UL-RL	1.4407E+04	-2.400	0.000	
1.000	1.000	12.35	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	2.673	-1.6282E-02	49.40	13.36	50.57	29.63	UL-RL	1.4407E+04	-2.600	0.000	
1.000	1.000	13.36	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	2.875	-1.5987E-02	53.20	14.38	54.44	31.56	UL-RL	1.4407E+04	-2.800	0.000	
1.000	1.000	14.38	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	3.078	-1.5692E-02	57.00	15.39	58.31	33.48	UL-RL	1.4407E+04	-3.000	0.000	
1.000	1.000	15.39	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	3.281	-1.5398E-02	60.80	16.40	62.18	35.40	UL-RL	1.4407E+04	-3.200	0.000	
1.000	1.000	16.40	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.483	-1.5103E-02	64.60	17.42	66.06	37.32	UL-RL	1.4407E+04	-3.400	0.000	
1.000	1.000	17.42	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.686	-1.4809E-02	68.40	18.43	69.93	39.23	UL-RL	1.4407E+04	-3.600	0.000	
1.000	1.000	18.43	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.889	-1.4515E-02	72.20	19.44	73.80	41.14	UL-RL	1.4407E+04	-3.800	0.000	
1.000	1.000	19.44	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	10.04	-1.4222E-02	76.00	50.18	77.68	50.20	UL-RL	2.6488E+04	-4.000	0.000	
1.000	1.000	50.18	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	10.57	-1.3929E-02	79.80	52.83	81.55	52.87	UL-RL	2.6488E+04	-4.200	0.000	

1.000	1.000	52.83	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	11.10	-1.3637E-02	83.60	55.48	85.43	55.54	UL-RL 2.6488E+04	-4.400	0.000
1.000	1.000	55.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	11.63	-1.3345E-02	87.40	58.14	89.30	58.21	UL-RL 2.6488E+04	-4.600	0.000
1.000	1.000	58.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	12.16	-1.3054E-02	91.20	60.79	93.18	60.88	UL-RL 2.6488E+04	-4.800	0.000
1.000	1.000	60.79	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	12.69	-1.2764E-02	95.00	63.44	97.05	63.55	UL-RL 2.6488E+04	-5.000	0.000
1.000	1.000	63.44	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	13.22	-1.2474E-02	98.80	66.10	100.9	66.22	UL-RL 2.6488E+04	-5.200	0.000
1.000	1.000	66.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	13.75	-1.2186E-02	102.6	68.75	104.8	68.89	UL-RL 2.6488E+04	-5.400	0.000
1.000	1.000	68.75	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	14.28	-1.1899E-02	106.4	71.40	108.7	71.56	UL-RL 2.6488E+04	-5.600	0.000
1.000	1.000	71.40	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	14.81	-1.1614E-02	110.2	74.06	112.6	74.23	UL-RL 2.6488E+04	-5.800	0.000
1.000	1.000	74.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.41	-1.1329E-02	112.9	75.93	115.3	76.12	UL-RL 2.6488E+04	-6.000	1.127
1.000	1.000	77.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.07	-1.1047E-02	114.7	77.22	117.2	77.42	UL-RL 2.6488E+04	-6.200	3.114
1.000	1.000	80.33	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	16.72	-1.0766E-02	116.5	78.50	119.1	78.72	UL-RL 2.6488E+04	-6.400	5.101
1.000	1.000	83.60	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	17.37	-1.0486E-02	118.3	79.78	121.0	80.01	UL-RL 2.6488E+04	-6.600	7.089
1.000	1.000	86.87	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	18.03	-1.0209E-02	120.1	81.06	122.8	81.31	UL-RL 2.6488E+04	-6.800	9.076
1.000	1.000	90.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	18.68	-9.9336E-03	121.9	82.35	124.7	82.61	UL-RL 2.6488E+04	-7.000	11.06
1.000	1.000	93.41	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	19.34	-9.6602E-03	123.7	83.63	126.6	83.90	UL-RL 2.6488E+04	-7.200	13.05
1.000	1.000	96.68	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	19.99	-9.3889E-03	125.6	84.91	128.5	85.20	UL-RL 2.6488E+04	-7.400	15.04
1.000	1.000	99.94	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	20.64	-9.1197E-03	127.4	86.19	130.4	86.50	UL-RL 2.6488E+04	-7.600	17.03
1.000	1.000	103.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	21.30	-8.8528E-03	129.2	87.47	132.2	87.79	UL-RL 2.6488E+04	-7.800	19.01
1.000	1.000	106.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	21.95	-8.5882E-03	131.0	88.75	134.1	89.08	UL-RL 2.6488E+04	-8.000	21.00
1.000	1.000	109.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.60	-8.3260E-03	132.8	90.02	136.0	90.38	UL-RL 2.6488E+04	-8.200	22.99
1.000	1.000	113.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.26	-8.0662E-03	134.6	91.30	137.9	91.67	UL-RL 2.6488E+04	-8.400	24.97
1.000	1.000	116.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.91	-7.8089E-03	136.4	92.58	139.7	92.96	UL-RL 2.6488E+04	-8.600	26.96
1.000	1.000	119.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	24.56	-7.5542E-03	138.3	93.85	141.6	94.25	UL-RL 2.6488E+04	-8.800	28.95
1.000	1.000	122.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	25.23	-7.3021E-03	140.1	95.21	143.7	95.67	UL-RL 2.6488E+04	-9.000	30.94
1.000	1.000	126.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	25.90	-7.0527E-03	141.9	96.57	145.7	97.10	UL-RL 2.6488E+04	-9.200	32.92
1.000	1.000	129.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	26.57	-6.8060E-03	143.7	97.93	147.8	98.52	UL-RL 2.6488E+04	-9.400	34.91
1.000	1.000	132.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	27.24	-6.5622E-03	145.5	99.29	149.9	99.94	UL-RL 2.6488E+04	-9.600	36.90
1.000	1.000	136.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	27.91	-6.3213E-03	147.3	100.6	151.9	101.4	UL-RL 2.6488E+04	-9.800	38.89
1.000	1.000	139.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	28.57	-6.0834E-03	149.1	102.0	154.0	102.8	UL-RL 2.6488E+04	-10.00	40.87
1.000	1.000	142.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	29.24	-5.8485E-03	150.9	103.3	156.0	104.2	UL-RL 2.6488E+04	-10.20	42.86
1.000	1.000	146.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	29.91	-5.6168E-03	152.8	104.7	158.1	105.6	UL-RL	2.6488E+04	-10.40	44.85
1.000	1.000	149.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.57	-5.3884E-03	154.6	106.0	160.1	107.0	UL-RL	2.6488E+04	-10.60	46.83
1.000	1.000	152.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.24	-5.1633E-03	156.4	107.4	162.1	108.4	UL-RL	2.6488E+04	-10.80	48.82
1.000	1.000	156.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	31.90	-4.9417E-03	158.2	108.7	164.1	109.8	UL-RL	2.6488E+04	-11.00	50.81
1.000	1.000	159.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	32.57	-4.7237E-03	160.0	110.0	166.2	111.2	UL-RL	2.6488E+04	-11.20	52.80
1.000	1.000	162.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	33.23	-4.5094E-03	161.8	111.4	168.2	112.6	UL-RL	2.6488E+04	-11.40	54.78
1.000	1.000	166.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	33.90	-4.2990E-03	163.6	112.7	170.2	113.9	UL-RL	2.6488E+04	-11.60	56.77
1.000	1.000	169.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	34.56	-4.0927E-03	165.4	114.0	172.2	115.3	UL-RL	2.6488E+04	-11.80	58.76
1.000	1.000	172.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	35.22	-3.8905E-03	167.3	115.4	174.2	116.7	UL-RL	2.6488E+04	-12.00	60.75
1.000	1.000	176.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.14	-3.6927E-03	169.2	82.95	176.3	88.20	UL-RL	9.4545E+04	-12.20	62.73
1.000	1.000	145.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.78	-3.4994E-03	171.3	84.16	178.6	89.21	UL-RL	9.4545E+04	-12.40	64.72
1.000	1.000	148.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	30.42	-3.3109E-03	173.4	85.38	180.9	90.22	UL-RL	9.4545E+04	-12.60	66.71
1.000	1.000	152.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	31.06	-3.1273E-03	175.5	86.59	183.2	91.23	UL-RL	9.4545E+04	-12.80	68.70
1.000	1.000	155.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	31.70	-2.9487E-03	177.6	87.80	185.5	92.24	UL-RL	9.4545E+04	-13.00	70.68
1.000	1.000	158.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	32.34	-2.7752E-03	179.7	89.01	187.8	93.25	UL-RL	9.4545E+04	-13.20	72.67
1.000	1.000	161.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	32.98	-2.6071E-03	181.9	90.22	190.1	94.27	UL-RL	9.4545E+04	-13.40	74.66
1.000	1.000	164.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	33.61	-2.4443E-03	184.0	91.43	192.4	95.28	UL-RL	9.4545E+04	-13.60	76.64
1.000	1.000	168.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	34.25	-2.2869E-03	186.1	92.64	194.6	96.29	UL-RL	9.4545E+04	-13.80	78.63
1.000	1.000	171.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	34.89	-2.1352E-03	188.2	93.85	196.9	97.30	UL-RL	9.4545E+04	-14.00	80.62
1.000	1.000	174.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	22.10	-1.9891E-03	190.5	27.88	199.3	98.40	UL-RL	1.2392E+05	-14.20	82.61
1.000	1.000	110.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	22.75	-1.8488E-03	193.0	29.14	202.0	99.61	UL-RL	1.2392E+05	-14.40	84.59
1.000	1.000	113.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	23.40	-1.7142E-03	195.5	30.41	204.7	100.8	UL-RL	1.2392E+05	-14.60	86.58
1.000	1.000	117.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	24.05	-1.5854E-03	198.0	31.67	207.3	102.0	UL-RL	1.2392E+05	-14.80	88.57
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.70	-1.4624E-03	200.5	32.94	210.0	103.3	UL-RL	1.2392E+05	-15.00	90.56
1.000	1.000	123.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	25.35	-1.3452E-03	203.0	34.20	212.6	104.5	UL-RL	1.2392E+05	-15.20	92.54
1.000	1.000	126.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	26.00	-1.2337E-03	205.5	35.47	215.3	105.7	UL-RL	1.2392E+05	-15.40	94.53
1.000	1.000	130.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.65	-1.1279E-03	208.1	36.73	218.0	106.9	UL-RL	1.2392E+05	-15.60	96.52
1.000	1.000	133.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.30	-1.0275E-03	210.6	38.00	220.6	108.1	UL-RL	1.2392E+05	-15.80	98.50
1.000	1.000	136.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	27.95	-9.3253E-04	213.1	39.27	223.3	109.3	UL-RL	1.2392E+05	-16.00	100.5
1.000	1.000	139.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.60	-8.4280E-04	215.6	40.54	225.9	110.6	UL-RL	1.2392E+05	-16.20	102.5
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.25	-7.5816E-04	218.1	41.80	228.5	111.8	UL-RL	1.2392E+05	-16.40	104.5
1.000	1.000	146.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	29.91	-6.7840E-04	220.6	43.07	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	149.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.55	-6.0334E-04	223.1	44.30	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	152.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.44	-5.3274E-04	225.7	46.77	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	157.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.73	-4.6637E-04	228.2	56.22	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	168.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	35.92	-4.0398E-04	230.7	65.19	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	179.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.02	-3.4531E-04	233.2	73.70	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	190.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.03	-2.9008E-04	235.7	81.78	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	200.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	41.97	-2.3802E-04	238.2	89.46	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	209.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	43.83	-1.8884E-04	240.7	96.79	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	219.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.63	-1.4227E-04	243.2	103.8	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	228.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.37	-9.8020E-05	245.8	110.5	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	236.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.06	-5.5828E-05	248.3	117.0	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	245.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.53	-1.5423E-05	250.8	122.3	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	252.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.74	2.3447E-05	253.3	126.4	263.2	130.3	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	258.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	52.93	6.1024E-05	255.8	130.4	265.6	132.5	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	264.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	53.94	9.7533E-05	258.3	133.4	268.1	135.1	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	269.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	54.90	1.3318E-04	260.8	136.2	270.6	137.7	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	274.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	55.85	1.6816E-04	263.3	139.0	273.0	140.3	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	279.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	56.80	2.0263E-04	265.9	141.8	275.5	142.9	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	284.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.74	2.3675E-04	268.4	144.5	278.0	145.6	UL-RL	1.2392E+05	-20.40	144.2
1.000	1.000	288.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.66	2.7064E-04	270.9	147.1	280.4	148.2	UL-RL	1.2392E+05	-20.60	146.2
1.000	1.000	293.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.59	3.0438E-04	273.4	149.8	282.9	150.8	UL-RL	1.2392E+05	-20.80	148.2
1.000	1.000	297.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.51	3.3807E-04	275.9	152.4	285.4	153.4	UL-RL	1.2392E+05	-21.00	150.2
1.000	1.000	302.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.72	3.7173E-04	278.4	155.0	287.8	156.1	UL-RL	1.2392E+05	-21.20	152.2
1.000	1.000	307.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

29 D	15.64	1.1899E-02	30.40	78.18	30.40	78.52	UL-RL 2.1501E+04	-5.600	0.000
1.000	1.000	78.18	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	17.45	1.1614E-02	34.20	87.23	34.20	87.57	UL-RL 2.1501E+04	-5.800	0.000
1.000	1.000	87.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.25	1.1329E-02	38.00	96.27	38.00	96.61	UL-RL 2.1501E+04	-6.000	0.000
1.000	1.000	96.27	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.73	1.1047E-02	40.59	102.4	40.59	102.8	UL-RL 2.1501E+04	-6.200	1.211
1.000	1.000	103.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.24	1.0766E-02	42.38	103.0	42.38	103.3	UL-RL 2.1501E+04	-6.400	3.223
1.000	1.000	106.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	21.41	1.0486E-02	44.16	101.8	44.16	102.2	UL-RL 2.1501E+04	-6.600	5.236
1.000	1.000	107.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	21.59	1.0209E-02	45.95	100.7	45.95	101.1	UL-RL 2.1501E+04	-6.800	7.249
1.000	1.000	108.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	21.77	9.9336E-03	47.74	99.59	47.74	99.94	UL-RL 2.1501E+04	-7.000	9.261
1.000	1.000	108.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	21.95	9.6602E-03	49.53	98.49	49.53	98.84	UL-RL 2.1501E+04	-7.200	11.27
1.000	1.000	109.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.14	9.3889E-03	51.31	97.40	51.31	97.75	UL-RL 2.1501E+04	-7.400	13.29
1.000	1.000	110.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	22.32	9.1197E-03	53.10	96.32	53.10	96.68	UL-RL 2.1501E+04	-7.600	15.30
1.000	1.000	111.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	22.51	8.8528E-03	54.89	95.26	54.89	95.62	UL-RL 2.1501E+04	-7.800	17.31
1.000	1.000	112.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	22.71	8.5882E-03	56.68	94.22	56.68	94.58	UL-RL 2.1501E+04	-8.000	19.32
1.000	1.000	113.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.91	8.3260E-03	58.46	93.19	58.46	93.55	UL-RL 2.1501E+04	-8.200	21.34
1.000	1.000	114.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.11	8.0662E-03	60.25	92.18	60.25	92.54	UL-RL 2.1501E+04	-8.400	23.35
1.000	1.000	115.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.31	7.8089E-03	62.04	91.18	62.04	91.55	UL-RL 2.1501E+04	-8.600	25.36
1.000	1.000	116.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	23.52	7.5542E-03	63.82	90.21	63.82	90.57	UL-RL 2.1501E+04	-8.800	27.38
1.000	1.000	117.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	23.73	7.3021E-03	65.61	89.25	65.61	89.62	UL-RL 2.1501E+04	-9.000	29.39
1.000	1.000	118.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	23.94	7.0527E-03	67.40	88.31	67.40	88.68	UL-RL 2.1501E+04	-9.200	31.40
1.000	1.000	119.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	24.16	6.8060E-03	69.19	87.39	69.19	87.76	UL-RL 2.1501E+04	-9.400	33.41
1.000	1.000	120.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	24.38	6.5622E-03	70.97	86.49	70.97	86.86	UL-RL 2.1501E+04	-9.600	35.43
1.000	1.000	121.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	24.61	6.3213E-03	72.76	85.61	72.76	85.98	UL-RL 2.1501E+04	-9.800	37.44
1.000	1.000	123.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	24.84	6.0834E-03	74.55	84.76	74.55	85.12	UL-RL 2.1501E+04	-10.00	39.45
1.000	1.000	124.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	25.08	5.8485E-03	76.34	83.92	76.34	84.28	UL-RL 2.1501E+04	-10.20	41.46
1.000	1.000	125.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	25.32	5.6168E-03	78.12	83.11	78.12	83.47	UL-RL 2.1501E+04	-10.40	43.48
1.000	1.000	126.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	25.56	5.3884E-03	79.91	82.32	79.91	82.68	UL-RL 2.1501E+04	-10.60	45.49
1.000	1.000	127.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	25.81	5.1633E-03	81.70	81.55	81.70	81.91	UL-RL 2.1501E+04	-10.80	47.50
1.000	1.000	129.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	26.07	4.9417E-03	83.48	80.81	83.48	81.17	UL-RL 2.1501E+04	-11.00	49.52
1.000	1.000	130.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	26.33	4.7237E-03	85.27	80.10	85.27	80.45	UL-RL 2.1501E+04	-11.20	51.53
1.000	1.000	131.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	26.59	4.5094E-03	87.06	79.41	87.06	79.76	UL-RL 2.1501E+04	-11.40	53.54
1.000	1.000	133.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	26.86	4.2990E-03	88.85	78.75	88.85	79.10	UL-RL 2.1501E+04	-11.60	55.55
1.000	1.000	134.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	27.14	4.0927E-03	90.63	78.12	90.63	78.46	UL-RL	2.1501E+04	-11.80	57.57	
1.000	1.000	135.7	0.000	0.000	2.000	2.000		Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	27.42	3.8905E-03	92.42	77.52	92.42	77.86	UL-RL	2.1501E+04	-12.00	59.58	
1.000	1.000	137.1	0.000	0.000	2.000	2.000		Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	39.81	3.6927E-03	94.33	137.4	94.33	138.5	UL-RL	7.1008E+04	-12.20	61.59	
1.000	1.000	199.0	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	39.50	3.4994E-03	96.42	133.9	96.42	135.0	UL-RL	7.1008E+04	-12.40	63.60	
1.000	1.000	197.5	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	39.21	3.3109E-03	98.50	130.4	98.50	131.5	UL-RL	7.1008E+04	-12.60	65.62	
1.000	1.000	196.0	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	38.94	3.1273E-03	100.6	127.1	100.6	128.1	UL-RL	7.1008E+04	-12.80	67.63	
1.000	1.000	194.7	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	38.70	2.9487E-03	102.7	123.9	102.7	124.9	UL-RL	7.1008E+04	-13.00	69.64	
1.000	1.000	193.5	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	38.48	2.7752E-03	104.8	120.8	104.8	121.8	UL-RL	7.1008E+04	-13.20	71.65	
1.000	1.000	192.4	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	38.29	2.6071E-03	106.9	117.8	106.9	118.8	UL-RL	7.1008E+04	-13.40	73.67	
1.000	1.000	191.5	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	38.13	2.4443E-03	108.9	114.9	108.9	115.9	UL-RL	7.1008E+04	-13.60	75.68	
1.000	1.000	190.6	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	37.98	2.2869E-03	111.0	112.2	111.0	113.2	UL-RL	7.1008E+04	-13.80	77.69	
1.000	1.000	189.9	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	37.87	2.1352E-03	113.1	109.6	113.1	110.6	UL-RL	7.1008E+04	-14.00	79.71	
1.000	1.000	189.4	0.000	0.000	10.00	10.00		Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.69	1.9891E-03	115.4	121.7	115.4	123.0	UL-RL	9.3069E+04	-14.20	81.72	
1.000	1.000	203.4	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.46	1.8488E-03	117.8	118.6	117.8	119.8	UL-RL	9.3069E+04	-14.40	83.73	
1.000	1.000	202.3	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	40.27	1.7142E-03	120.3	115.6	120.3	116.8	UL-RL	9.3069E+04	-14.60	85.74	
1.000	1.000	201.3	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	40.11	1.5854E-03	122.8	112.8	122.8	114.0	UL-RL	9.3069E+04	-14.80	87.76	
1.000	1.000	200.6	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	40.00	1.4624E-03	125.3	110.2	125.3	111.4	UL-RL	9.3069E+04	-15.00	89.77	
1.000	1.000	200.0	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
77 D	39.91	1.3452E-03	127.8	107.8	127.8	109.0	UL-RL	9.3069E+04	-15.20	91.78	
1.000	1.000	199.6	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
78 D	39.87	1.2337E-03	130.3	105.5	130.3	106.7	UL-RL	9.3069E+04	-15.40	93.79	
1.000	1.000	199.3	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
79 D	39.85	1.1279E-03	132.8	103.5	132.8	104.6	UL-RL	9.3069E+04	-15.60	95.81	
1.000	1.000	199.3	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
80 D	39.88	1.0275E-03	135.3	101.6	135.3	102.7	UL-RL	9.3069E+04	-15.80	97.82	
1.000	1.000	199.4	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
81 D	39.93	9.3253E-04	137.7	99.83	137.7	101.0	UL-RL	9.3069E+04	-16.00	99.83	
1.000	1.000	199.7	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
82 D	40.02	8.4280E-04	140.2	98.25	140.2	99.39	UL-RL	9.3069E+04	-16.20	101.8	
1.000	1.000	200.1	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
83 D	40.14	7.5816E-04	142.7	96.84	142.7	97.97	UL-RL	9.3069E+04	-16.40	103.9	
1.000	1.000	200.7	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
84 D	40.29	6.7840E-04	145.2	95.57	145.2	96.70	UL-RL	9.3069E+04	-16.60	105.9	
1.000	1.000	201.4	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
85 D	40.47	6.0334E-04	147.7	94.46	147.7	95.58	UL-RL	9.3069E+04	-16.80	107.9	
1.000	1.000	202.3	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
86 D	40.67	5.3274E-04	150.2	93.48	150.2	94.59	UL-RL	9.3069E+04	-17.00	109.9	
1.000	1.000	203.4	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
87 D	40.91	4.6637E-04	152.7	92.63	152.7	93.74	UL-RL	9.3069E+04	-17.20	111.9	
1.000	1.000	204.5	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
88 D	41.17	4.0398E-04	155.2	91.90	155.2	93.01	UL-RL	9.3069E+04	-17.40	113.9	
1.000	1.000	205.8	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
89 D	41.45	3.4531E-04	157.6	91.30	157.6	92.39	UL-RL	9.3069E+04	-17.60	115.9	
1.000	1.000	207.2	0.000	0.000	50.00	50.00		Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
90 D	41.75	2.9008E-04	160.1	90.79	160.1	91.89	UL-RL	9.3069E+04	-17.80	117.9	

1.000	1.000	208.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.07	2.3802E-04	162.6	90.39	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	210.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.41	1.8884E-04	165.1	90.08	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.49	1.4227E-04	167.6	88.44	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	212.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.40	9.8020E-05	170.1	85.98	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.34	5.5828E-05	172.6	83.68	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	211.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.31	1.5423E-05	175.1	81.52	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	211.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.30	-2.3447E-05	177.5	79.48	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	211.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.32	-6.1024E-05	180.0	77.54	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	211.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.35	-9.7533E-05	182.5	75.68	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	211.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.39	-1.3318E-04	185.0	73.89	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.45	-1.6816E-04	187.5	72.15	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	212.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.51	-2.0263E-04	190.0	70.46	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.58	-2.3675E-04	192.5	68.78	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	212.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.65	-2.7064E-04	195.0	67.13	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	213.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	42.73	-3.0438E-04	197.4	65.49	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	213.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	42.80	-3.3807E-04	199.9	63.86	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	214.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.44	-3.7173E-04	202.4	62.22	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	214.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58           |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	9.83966E-09	-9.83966E-09	9.82749E-10	-4.10599E-11
2	0.24077	-0.24077	-2.52824E-10	4.81531E-02
3	0.68438	-0.68438	-4.81531E-02	0.18503
4	1.3307	-1.3307	-0.18503	0.45116
5	2.1796	-2.1796	-0.45116	0.88709
6	3.2312	-3.2312	-0.88709	1.5333
7	4.4855	-4.4855	-1.5333	2.4304
8	5.9423	-5.9423	-2.4304	3.6189
9	7.6019	-7.6019	-3.6189	5.1393
10	9.4640	-9.4640	-5.1393	7.0321
11	11.529	-11.529	-7.0321	9.3378
12	13.796	-13.796	-9.3378	12.097
13	16.266	-16.266	-12.097	15.350
14	18.939	-18.939	-15.350	19.138
15	21.815	-21.815	-19.138	23.501

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   91
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.893	-24.893	-23.501	28.480
2	28.173	-28.173	-28.480	34.114
3	31.657	-31.657	-34.114	40.446
4	35.343	-35.343	-40.446	47.514
5	39.231	-39.231	-47.514	55.360
6	48.096	-48.096	-55.360	64.980
7	55.684	-55.684	-64.980	76.116
8	61.994	-61.994	-76.116	88.515
9	67.026	-67.026	-88.515	101.92
10	70.781	-70.781	-101.92	116.08
11	73.258	-73.258	-116.08	130.73
12	74.457	-74.457	-130.73	145.62
13	74.379	-74.379	-145.62	160.50
14	73.022	-73.022	-160.50	175.10
15	70.388	-70.388	-175.10	189.18
16	66.547	-66.547	-189.18	202.49
17	61.885	-61.885	-202.49	214.86
18	57.366	-57.366	-214.86	226.34
19	53.326	-53.326	-226.34	237.00
20	49.763	-49.763	-237.00	246.95
21	46.674	-46.674	-246.95	256.29
22	44.057	-44.057	-256.29	265.10
23	41.909	-41.909	-265.10	273.48
24	40.228	-40.228	-273.48	281.53
25	39.009	-39.009	-281.53	289.33
26	38.249	-38.249	-289.33	296.98
27	37.946	-37.946	-296.98	304.57
28	38.095	-38.095	-304.57	312.19
29	38.694	-38.694	-312.19	319.93
30	39.737	-39.737	-319.93	327.87
31	41.240	-41.240	-327.87	336.12
32	43.197	-43.197	-336.12	344.76
33	45.605	-45.605	-344.76	353.88
34	48.458	-48.458	-353.88	363.57
35	51.753	-51.753	-363.57	373.92
36	55.485	-55.485	-373.92	385.02
37	59.648	-59.648	-385.02	396.95
38	64.238	-64.238	-396.95	409.80
39	69.249	-69.249	-409.80	423.65
40	74.676	-74.676	-423.65	438.58
41	80.514	-80.514	-438.58	454.69
42	86.757	-86.757	-454.69	472.04
43	93.399	-93.399	-472.04	490.72
44	100.43	-100.43	-490.72	510.80
45	107.86	-107.86	-510.80	532.38
46	115.66	-115.66	-532.38	555.51
47	104.99	-104.99	-555.51	576.50
48	95.268	-95.268	-576.50	595.56
49	86.477	-86.477	-595.56	612.85
50	78.592	-78.592	-612.85	628.57
51	71.588	-71.588	-628.57	642.89
52	65.440	-65.440	-642.89	655.98
53	60.124	-60.124	-655.98	668.00
54	55.613	-55.613	-668.00	679.12
55	51.882	-51.882	-679.12	689.50
56	48.905	-48.905	-689.50	699.28
57	30.317	-30.317	-699.28	705.35
58	12.606	-12.606	-705.35	707.87
59	-4.2651	4.2651	-707.87	707.01
60	-20.332	20.332	-707.01	702.95
61	-35.630	35.630	-702.95	695.82
62	-50.194	50.194	-695.82	685.78
63	-64.061	64.061	-685.78	672.97
64	-77.265	77.265	-672.97	657.52
65	-89.840	89.840	-657.52	639.55
66	-101.82	101.82	-639.55	619.19
67	-113.24	113.24	-619.19	596.54
68	-124.12	124.12	-596.54	571.71
69	-134.51	134.51	-571.71	544.81
70	-144.43	144.43	-544.81	515.93

71	-153.66	153.66	-515.93	485.20
72	-160.84	160.84	-485.20	453.03
73	-166.09	166.09	-453.03	419.81
74	-169.52	169.52	-419.81	385.91
75	-171.23	171.23	-385.91	351.66
76	-171.34	171.34	-351.66	317.39
77	-169.92	169.92	-317.39	283.41
78	-166.78	166.78	-283.41	250.05
79	-161.80	161.80	-250.05	217.69
80	-155.08	155.08	-217.69	186.68
81	-146.86	146.86	-186.68	157.30
82	-137.43	137.43	-157.30	129.82
83	-126.82	126.82	-129.82	104.46
84	-115.23	115.23	-104.46	81.410
85	-102.72	102.72	-81.410	60.866
86	-89.318	89.318	-60.866	43.002
87	-75.025	75.025	-43.002	27.996
88	-59.864	59.864	-27.996	16.023
89	-43.851	43.851	-16.023	7.2533
90	-26.988	26.988	-7.2533	1.8556
91	-9.2785	9.2785	-1.8556	-1.51665E-11

```

ITER      0  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM= 65.36      REMNOR=0.1385E-16  RATIO =0.6403E-02  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.6403E-02  RATIO= 0.000
             MAX UN= 3.017      IEQ=   63 NODE      32 DOF   1  Y-DISPL.F
             MIN UN=-.1020E-07  IEQ=   83 NODE      42 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM= 22.23      REMNOR=0.1596E-16  RATIO =0.3735E-02  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.3735E-02  RATIO= 0.000
             MAX UN= 1.015      IEQ=    3 NODE      2 DOF   1  Y-DISPL.F
             MIN UN=-.5975E-08  IEQ=  119 NODE      60 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      3  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM= 52.88      REMNOR=0.1755E-16  RATIO =0.5760E-02  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.5760E-02  RATIO= 0.000
             MAX UN= 2.847      IEQ=   89 NODE      45 DOF   1  Y-DISPL.F
             MIN UN=-.4047E-01  IEQ=  197 NODE      99 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM= 14.02      REMNOR=0.1948E-16  RATIO =0.2965E-02  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.2965E-02  RATIO= 0.000
             MAX UN= 1.757      IEQ=  139 NODE      70 DOF   1  Y-DISPL.F
             MIN UN=-.3432      IEQ=  207 NODE      104 DOF  1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM=0.3375      REMNOR=0.1443E-16  RATIO =0.4601E-03  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.4601E-03  RATIO= 0.000
             MAX UN=0.4958      IEQ=  149 NODE      75 DOF   1  Y-DISPL.F
             MIN UN=-.2786E-07  IEQ=   47 NODE      24 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM=0.1534E-04  REMNOR=0.1235E-16  RATIO =0.3102E-05  TOLER =0.1000E-03  CONVERGED !
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.3102E-05  RATIO= 0.000
             MAX UN=0.3833E-02  IEQ=  157 NODE      79 DOF   1  Y-DISPL.F
             MIN UN=-.8024E-03  IEQ=  193 NODE      97 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000) SUBINCREMENT 0001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F 02	X-ROT. F 04
1	2.4272150E-02	-1.8606233E-03
2	2.3900025E-02	-1.8606199E-03
3	2.3527903E-02	-1.8606018E-03
4	2.3155787E-02	-1.8605513E-03
5	2.2783686E-02	-1.8604478E-03
6	2.2411613E-02	-1.8602678E-03
7	2.2039585E-02	-1.8599849E-03
8	2.1667627E-02	-1.8595698E-03
9	2.1295768E-02	-1.8589902E-03
10	2.0924045E-02	-1.8582112E-03
11	2.0552500E-02	-1.8571945E-03
12	2.0181185E-02	-1.8558993E-03
13	1.9810162E-02	-1.8542817E-03
14	1.9439497E-02	-1.8522950E-03
15	1.9069272E-02	-1.8498894E-03
16	1.8699573E-02	-1.8470125E-03
17	1.8330359E-02	-1.8450719E-03
18	1.7961567E-02	-1.8427974E-03
19	1.7593265E-02	-1.8401540E-03
20	1.7225532E-02	-1.8371050E-03
21	1.6858453E-02	-1.8336118E-03
22	1.6492121E-02	-1.8296176E-03
23	1.6126644E-02	-1.8250535E-03
24	1.5762143E-02	-1.8198610E-03
25	1.5398746E-02	-1.8139900E-03
26	1.5036595E-02	-1.8073984E-03
27	1.4675837E-02	-1.8000527E-03
28	1.4316626E-02	-1.7919275E-03
29	1.3959121E-02	-1.7830058E-03
30	1.3603479E-02	-1.7732788E-03
31	1.3249863E-02	-1.7627461E-03
32	1.2898434E-02	-1.7514151E-03
33	1.2549349E-02	-1.7392997E-03
34	1.2202765E-02	-1.7264171E-03
35	1.1858834E-02	-1.7127877E-03
36	1.1517700E-02	-1.6984343E-03
37	1.1179507E-02	-1.6833827E-03
38	1.0844392E-02	-1.6676616E-03
39	1.0512485E-02	-1.6513024E-03
40	1.0183913E-02	-1.6343383E-03
41	9.8587894E-03	-1.6168003E-03
42	9.5372290E-03	-1.5987153E-03
43	9.2193383E-03	-1.5801056E-03
44	8.9052205E-03	-1.5609891E-03
45	8.5949771E-03	-1.5413797E-03
46	8.2887024E-03	-1.5212865E-03
47	7.9864944E-03	-1.5007147E-03
48	7.6884484E-03	-1.4796652E-03
49	7.3946603E-03	-1.4581348E-03
50	7.1052285E-03	-1.4361163E-03
51	6.8202486E-03	-1.4135980E-03
52	6.5398291E-03	-1.3905653E-03
53	6.2640637E-03	-1.3669979E-03
54	5.9930671E-03	-1.3428730E-03
55	5.7269535E-03	-1.3181636E-03
56	5.4658427E-03	-1.2928390E-03
57	5.2098612E-03	-1.2668645E-03
58	4.9591428E-03	-1.2402020E-03
59	4.7138291E-03	-1.2128097E-03
60	4.4740705E-03	-1.1846424E-03
61	4.2400270E-03	-1.1556511E-03
62	4.0118685E-03	-1.1257837E-03
63	3.7897702E-03	-1.0950669E-03
64	3.5738915E-03	-1.0636033E-03
65	3.3643724E-03	-1.0314868E-03
66	3.1613346E-03	-9.9880293E-04
67	2.9648839E-03	-9.6562873E-04
68	2.7751112E-03	-9.3203339E-04
69	2.5920945E-03	-8.9807830E-04
70	2.4159003E-03	-8.6381734E-04
71	2.2465849E-03	-8.2929719E-04
72	2.0841960E-03	-7.9455756E-04
73	1.9287698E-03	-7.5969913E-04
74	1.7803136E-03	-7.2488295E-04

75 1.6388036E-03 -6.9026231E-04
76 1.5041859E-03 -6.5598308E-04
77 1.3763783E-03 -6.2218409E-04
78 1.2552714E-03 -5.8899738E-04
79 1.1407302E-03 -5.5654761E-04
80 1.0325955E-03 -5.2495151E-04
81 9.3068544E-04 -4.9431804E-04
82 8.3479733E-04 -4.6474854E-04
83 7.4470882E-04 -4.3633722E-04
84 6.6017939E-04 -4.0917178E-04
85 5.8095161E-04 -3.8333382E-04
86 5.0675229E-04 -3.5889944E-04
87 4.3729360E-04 -3.3593859E-04
88 3.7227478E-04 -3.1450883E-04
89 3.1138531E-04 -2.9465031E-04
90 2.5430554E-04 -2.7638607E-04
91 2.0072102E-04 -2.5972663E-04
92 1.5030834E-04 -2.4466551E-04
93 1.0274952E-04 -2.3118381E-04
94 5.7731691E-05 -2.1924893E-04
95 1.4949992E-05 -2.0881335E-04
96 -2.5889441E-05 -1.9981465E-04
97 -6.5066596E-05 -1.9217688E-04
98 -1.0284515E-04 -1.8581353E-04
99 -1.3947065E-04 -1.8062986E-04
100 -1.7516892E-04 -1.7652348E-04
101 -2.1014454E-04 -1.7338455E-04
102 -2.4457943E-04 -1.7109600E-04
103 -2.7863305E-04 -1.6953351E-04
104 -3.1243420E-04 -1.6856594E-04
105 -3.4608986E-04 -1.6805491E-04
106 -3.7967692E-04 -1.6785517E-04
107 -4.1324086E-04 -1.6781453E-04

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 1

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0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-2.4272E-02	0.000	0.000	0.4062	4.021	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2022	-2.3900E-02	3.800	1.011	4.252	6.027	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	1.011	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.4043	-2.3528E-02	7.600	2.022	8.101	8.027	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	2.022	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.6065	-2.3156E-02	11.40	3.032	11.95	10.02	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	3.032	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.8086	-2.2784E-02	15.20	4.043	15.81	12.01	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	4.043	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.011	-2.2412E-02	19.00	5.054	19.66	13.99	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	5.054	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.213	-2.2040E-02	22.80	6.065	23.52	15.96	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	6.065	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.415	-2.1668E-02	26.60	7.076	27.38	17.93	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	7.076	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	1.617	-2.1296E-02	30.40	8.086	31.24	19.89	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	8.086	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	1.819	-2.0924E-02	34.20	9.097	35.10	21.85	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	9.097	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.022	-2.0552E-02	38.00	10.11	38.97	23.80	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	10.11	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.224	-2.0181E-02	41.80	11.12	42.83	25.75	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	11.12	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	2.426	-1.9810E-02	45.60	12.13	46.70	27.69	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	12.13	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	2.628	-1.9439E-02	49.40	13.14	50.57	29.63	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	13.14	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	2.830	-1.9069E-02	53.20	14.15	54.44	31.56	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	14.15	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	3.032	-1.8700E-02	57.00	15.16	58.31	33.48	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	15.16	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	3.235	-1.8330E-02	60.80	16.17	62.18	35.40	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	16.17	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.437	-1.7962E-02	64.60	17.18	66.06	37.32	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	17.18	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.639	-1.7593E-02	68.40	18.19	69.93	39.23	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	18.19	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.841	-1.7226E-02	72.20	19.21	73.80	41.14	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	19.21	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	9.809	-1.6858E-02	76.00	49.04	77.68	50.20	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	49.04	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	10.33	-1.6492E-02	79.80	51.66	81.55	52.87	ACTIVE	0.000	-4.200	0.000	

1.000	1.000	51.66	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	10.86	-1.6127E-02	83.60	54.28	85.43	55.54	ACTIVE	0.000	-4.400	0.000
1.000	1.000	54.28	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	11.38	-1.5762E-02	87.40	56.90	89.30	58.21	ACTIVE	0.000	-4.600	0.000
1.000	1.000	56.90	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	11.90	-1.5399E-02	91.20	59.52	93.18	60.88	ACTIVE	0.000	-4.800	0.000
1.000	1.000	59.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	12.43	-1.5037E-02	95.00	62.13	97.05	63.55	ACTIVE	0.000	-5.000	0.000
1.000	1.000	62.13	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	12.95	-1.4676E-02	98.80	64.75	100.9	66.22	ACTIVE	0.000	-5.200	0.000
1.000	1.000	64.75	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	13.47	-1.4317E-02	102.6	67.37	104.8	68.89	ACTIVE	0.000	-5.400	0.000
1.000	1.000	67.37	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	14.00	-1.3959E-02	106.4	69.99	108.7	71.56	ACTIVE	0.000	-5.600	0.000
1.000	1.000	69.99	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	14.52	-1.3603E-02	110.2	72.61	112.6	74.23	ACTIVE	0.000	-5.800	0.000
1.000	1.000	72.61	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	15.12	-1.3250E-02	112.9	74.45	115.3	76.12	ACTIVE	0.000	-6.000	1.127
1.000	1.000	75.58	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	15.76	-1.2898E-02	114.7	75.70	117.2	77.42	ACTIVE	0.000	-6.200	3.114
1.000	1.000	78.81	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	16.41	-1.2549E-02	116.5	76.95	119.1	78.72	ACTIVE	0.000	-6.400	5.101
1.000	1.000	82.05	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	17.06	-1.2203E-02	118.3	78.20	121.0	80.01	ACTIVE	0.000	-6.600	7.089
1.000	1.000	85.28	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	17.70	-1.1859E-02	120.1	79.45	122.8	81.31	ACTIVE	0.000	-6.800	9.076
1.000	1.000	88.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	18.35	-1.1518E-02	121.9	80.69	124.7	82.61	ACTIVE	0.000	-7.000	11.06
1.000	1.000	91.76	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	19.00	-1.1180E-02	123.7	81.94	126.6	83.90	ACTIVE	0.000	-7.200	13.05
1.000	1.000	94.99	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	19.65	-1.0844E-02	125.6	83.19	128.5	85.20	ACTIVE	0.000	-7.400	15.04
1.000	1.000	98.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	20.29	-1.0512E-02	127.4	84.44	130.4	86.50	ACTIVE	0.000	-7.600	17.03
1.000	1.000	101.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	20.94	-1.0184E-02	129.2	85.69	132.2	87.79	ACTIVE	0.000	-7.800	19.01
1.000	1.000	104.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	21.59	-9.8588E-03	131.0	86.94	134.1	89.08	ACTIVE	0.000	-8.000	21.00
1.000	1.000	107.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.23	-9.5372E-03	132.8	88.19	136.0	90.38	ACTIVE	0.000	-8.200	22.99
1.000	1.000	111.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	22.88	-9.2193E-03	134.6	89.44	137.9	91.67	ACTIVE	0.000	-8.400	24.97
1.000	1.000	114.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.53	-8.9052E-03	136.4	90.69	139.7	92.96	ACTIVE	0.000	-8.600	26.96
1.000	1.000	117.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	24.18	-8.5950E-03	138.3	91.93	141.6	94.25	ACTIVE	0.000	-8.800	28.95
1.000	1.000	120.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	24.82	-8.2887E-03	140.1	93.18	143.7	95.67	ACTIVE	0.000	-9.000	30.94
1.000	1.000	124.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	25.47	-7.9865E-03	141.9	94.43	145.7	97.10	ACTIVE	0.000	-9.200	32.92
1.000	1.000	127.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	26.12	-7.6884E-03	143.7	95.68	147.8	98.52	ACTIVE	0.000	-9.400	34.91
1.000	1.000	130.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	26.77	-7.3947E-03	145.5	96.93	149.9	99.94	ACTIVE	0.000	-9.600	36.90
1.000	1.000	133.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	27.41	-7.1052E-03	147.3	98.18	151.9	101.4	ACTIVE	0.000	-9.800	38.89
1.000	1.000	137.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	28.06	-6.8202E-03	149.1	99.43	154.0	102.8	ACTIVE	0.000	-10.00	40.87
1.000	1.000	140.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	28.71	-6.5398E-03	150.9	100.7	156.0	104.2	ACTIVE	0.000	-10.20	42.86
1.000	1.000	143.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	29.35	-6.2641E-03	152.8	101.9	158.1	105.6	ACTIVE	0.000	-10.40	44.85
1.000	1.000	146.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.00	-5.9931E-03	154.6	103.2	160.1	107.0	ACTIVE	0.000	-10.60	46.83
1.000	1.000	150.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	30.65	-5.7270E-03	156.4	104.4	162.1	108.4	ACTIVE	0.000	-10.80	48.82
1.000	1.000	153.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	31.30	-5.4658E-03	158.2	105.7	164.1	109.8	ACTIVE	0.000	-11.00	50.81
1.000	1.000	156.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	31.94	-5.2099E-03	160.0	106.9	166.2	111.2	ACTIVE	0.000	-11.20	52.80
1.000	1.000	159.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	32.59	-4.9591E-03	161.8	108.2	168.2	112.6	ACTIVE	0.000	-11.40	54.78
1.000	1.000	163.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	33.24	-4.7138E-03	163.6	109.4	170.2	113.9	ACTIVE	0.000	-11.60	56.77
1.000	1.000	166.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	33.89	-4.4741E-03	165.4	110.7	172.2	115.3	ACTIVE	0.000	-11.80	58.76
1.000	1.000	169.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	34.53	-4.2400E-03	167.3	111.9	174.2	116.7	ACTIVE	0.000	-12.00	60.75
1.000	1.000	172.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	28.41	-4.0119E-03	169.2	79.31	176.3	88.20	ACTIVE	0.000	-12.20	62.73
1.000	1.000	142.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.04	-3.7898E-03	171.3	80.49	178.6	89.21	ACTIVE	0.000	-12.40	64.72
1.000	1.000	145.2	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.67	-3.5739E-03	173.4	81.66	180.9	90.22	ACTIVE	0.000	-12.60	66.71
1.000	1.000	148.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	30.31	-3.3644E-03	175.5	82.84	183.2	91.23	ACTIVE	0.000	-12.80	68.70
1.000	1.000	151.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	30.94	-3.1613E-03	177.6	84.02	185.5	92.24	ACTIVE	0.000	-13.00	70.68
1.000	1.000	154.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	31.57	-2.9649E-03	179.7	85.19	187.8	93.25	ACTIVE	0.000	-13.20	72.67
1.000	1.000	157.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	32.21	-2.7751E-03	181.9	86.37	190.1	94.27	ACTIVE	0.000	-13.40	74.66
1.000	1.000	161.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	32.84	-2.5921E-03	184.0	87.55	192.4	95.28	ACTIVE	0.000	-13.60	76.64
1.000	1.000	164.2	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	33.47	-2.4159E-03	186.1	88.72	194.6	96.29	ACTIVE	0.000	-13.80	78.63
1.000	1.000	167.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	34.10	-2.2466E-03	188.2	89.90	196.9	97.30	ACTIVE	0.000	-14.00	80.62
1.000	1.000	170.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	21.33	-2.0842E-03	190.5	24.05	199.3	98.40	ACTIVE	0.000	-14.20	82.61
1.000	1.000	106.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	21.98	-1.9288E-03	193.0	25.29	202.0	99.61	ACTIVE	0.000	-14.40	84.59
1.000	1.000	109.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	22.62	-1.7803E-03	195.5	26.54	204.7	100.8	ACTIVE	0.000	-14.60	86.58
1.000	1.000	113.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	23.27	-1.6388E-03	198.0	27.79	207.3	102.0	ACTIVE	0.000	-14.80	88.57
1.000	1.000	116.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	23.92	-1.5042E-03	200.5	29.03	210.0	103.3	ACTIVE	0.000	-15.00	90.56
1.000	1.000	119.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	24.58	-1.3764E-03	203.0	30.34	212.6	104.5	UL-RL	1.2392E+05	-15.20	92.54
1.000	1.000	122.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	25.47	-1.2553E-03	205.5	32.80	215.3	105.7	UL-RL	1.2392E+05	-15.40	94.53
1.000	1.000	127.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.33	-1.1407E-03	208.1	35.14	218.0	106.9	UL-RL	1.2392E+05	-15.60	96.52
1.000	1.000	131.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.17	-1.0326E-03	210.6	37.37	220.6	108.1	UL-RL	1.2392E+05	-15.80	98.50
1.000	1.000	135.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	28.00	-9.3069E-04	213.1	39.50	223.3	109.3	UL-RL	1.2392E+05	-16.00	100.5
1.000	1.000	140.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.80	-8.3480E-04	215.6	41.53	225.9	110.6	UL-RL	1.2392E+05	-16.20	102.5
1.000	1.000	144.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.59	-7.4471E-04	218.1	43.47	228.5	111.8	UL-RL	1.2392E+05	-16.40	104.5
1.000	1.000	147.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	30.36	-6.6018E-04	220.6	45.33	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	151.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	31.10	-5.8095E-04	223.1	47.07	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	155.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	32.08	-5.0675E-04	225.7	49.99	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	160.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	34.45	-4.3729E-04	228.2	59.83	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	172.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	36.70	-3.7227E-04	230.7	69.12	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	183.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.86	-3.1139E-04	233.2	77.90	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	194.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.92	-2.5431E-04	235.7	86.21	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	42.89	-2.0072E-04	238.2	94.08	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	214.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	44.78	-1.5031E-04	240.7	101.6	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	223.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	46.61	-1.0275E-04	243.2	108.7	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	48.37	-5.7732E-05	245.8	115.5	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	241.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	50.07	-1.4950E-05	248.3	122.1	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	250.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	51.55	2.5889E-05	250.8	127.5	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	257.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	52.60	6.5067E-05	253.3	130.7	263.2	130.7	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	263.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	53.56	1.0285E-04	255.8	133.5	265.6	133.5	V-C	4.1306E+04	-19.40	134.3
1.000	1.000	267.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	54.50	1.3947E-04	258.3	136.3	268.1	136.3	V-C	4.1306E+04	-19.60	136.3
1.000	1.000	272.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	55.44	1.7517E-04	260.8	139.0	270.6	139.0	V-C	4.1306E+04	-19.80	138.3
1.000	1.000	277.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	56.38	2.1014E-04	263.3	141.6	273.0	141.6	V-C	4.1306E+04	-20.00	140.2
1.000	1.000	281.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	57.30	2.4458E-04	265.9	144.3	275.5	144.3	V-C	4.1306E+04	-20.20	142.2
1.000	1.000	286.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	58.23	2.7863E-04	268.4	146.9	278.0	146.9	V-C	4.1306E+04	-20.40	144.2
1.000	1.000	291.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	59.15	3.1243E-04	270.9	149.6	280.4	149.6	V-C	4.1306E+04	-20.60	146.2
1.000	1.000	295.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	60.07	3.4609E-04	273.4	152.2	282.9	152.2	V-C	4.1306E+04	-20.80	148.2
1.000	1.000	300.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	61.00	3.7968E-04	275.9	154.8	285.4	154.8	V-C	4.1306E+04	-21.00	150.2
1.000	1.000	305.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.96	4.1324E-04	278.4	157.4	287.8	157.4	V-C	4.1306E+04	-21.20	152.2
1.000	1.000	309.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022  15:34:58                                                                                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

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O_R                               :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohes_a	MAX-H-P Cohes_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	1.162	1.6858E-02	0.000	5.810	0.000	6.171	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	5.810	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.696	1.6492E-02	3.800	13.48	3.800	15.21	PASSIVE	0.000	-4.200	0.000	
1.000	1.000	13.48	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.231	1.6127E-02	7.600	21.15	7.600	24.26	PASSIVE	0.000	-4.400	0.000	
1.000	1.000	21.15	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	5.765	1.5762E-02	11.40	28.82	11.40	33.30	PASSIVE	0.000	-4.600	0.000	
1.000	1.000	28.82	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	7.299	1.5399E-02	15.20	36.50	15.20	42.35	PASSIVE	0.000	-4.800	0.000	
1.000	1.000	36.50	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	8.833	1.5037E-02	19.00	44.17	19.00	51.39	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	44.17	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	10.37	1.4676E-02	22.80	51.84	22.80	60.43	PASSIVE	0.000	-5.200	0.000	
1.000	1.000	51.84	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	11.90	1.4317E-02	26.60	59.51	26.60	69.48	PASSIVE	0.000	-5.400	0.000	
1.000	1.000	59.51	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	13.44	1.3959E-02	30.40	67.18	30.40	78.52	PASSIVE	0.000	-5.600	0.000
1.000	1.000	67.18	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	14.97	1.3603E-02	34.20	74.85	34.20	87.57	PASSIVE	0.000	-5.800	0.000
1.000	1.000	74.85	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	16.50	1.3250E-02	38.00	82.52	38.00	96.61	PASSIVE	0.000	-6.000	0.000
1.000	1.000	82.52	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	17.71	1.2898E-02	40.59	87.34	40.59	102.8	PASSIVE	0.000	-6.200	1.211
1.000	1.000	88.55	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	18.70	1.2549E-02	42.38	90.27	42.38	103.3	PASSIVE	0.000	-6.400	3.223
1.000	1.000	93.50	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	19.69	1.2203E-02	44.16	93.20	44.16	102.2	PASSIVE	0.000	-6.600	5.236
1.000	1.000	98.44	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	20.68	1.1859E-02	45.95	96.14	45.95	101.1	PASSIVE	0.000	-6.800	7.249
1.000	1.000	103.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	21.67	1.1518E-02	47.74	99.07	47.74	99.94	PASSIVE	0.000	-7.000	9.261
1.000	1.000	108.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	22.66	1.1180E-02	49.53	102.0	49.53	102.0	PASSIVE	0.000	-7.200	11.27
1.000	1.000	113.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	23.65	1.0844E-02	51.31	104.9	51.31	104.9	PASSIVE	0.000	-7.400	13.29
1.000	1.000	118.2	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	24.37	1.0512E-02	53.10	106.5	53.10	106.5	V-C	7167.	-7.600	15.30
1.000	1.000	121.8	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	24.47	1.0184E-02	54.89	105.0	54.89	105.0	V-C	7167.	-7.800	17.31
1.000	1.000	122.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	24.58	9.8588E-03	56.68	103.6	56.68	103.6	V-C	7167.	-8.000	19.32
1.000	1.000	122.9	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	24.69	9.5372E-03	58.46	102.1	58.46	102.1	V-C	7167.	-8.200	21.34
1.000	1.000	123.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	24.81	9.2193E-03	60.25	100.7	60.25	100.7	V-C	7167.	-8.400	23.35
1.000	1.000	124.0	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	24.93	8.9052E-03	62.04	99.28	62.04	99.28	V-C	7167.	-8.600	25.36
1.000	1.000	124.6	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	25.06	8.5950E-03	63.82	97.91	63.82	97.91	V-C	7167.	-8.800	27.38
1.000	1.000	125.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	25.19	8.2887E-03	65.61	96.56	65.61	96.56	V-C	7167.	-9.000	29.39
1.000	1.000	126.0	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	25.33	7.9865E-03	67.40	95.25	67.40	95.25	V-C	7167.	-9.200	31.40
1.000	1.000	126.6	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	25.47	7.6884E-03	69.19	93.96	69.19	93.96	V-C	7167.	-9.400	33.41
1.000	1.000	127.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	25.63	7.3947E-03	70.97	92.70	70.97	92.70	V-C	7167.	-9.600	35.43
1.000	1.000	128.1	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	25.78	7.1052E-03	72.76	91.47	72.76	91.47	V-C	7167.	-9.800	37.44
1.000	1.000	128.9	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	25.95	6.8202E-03	74.55	90.28	74.55	90.28	V-C	7167.	-10.000	39.45
1.000	1.000	129.7	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	26.12	6.5398E-03	76.34	89.12	76.34	89.12	V-C	7167.	-10.200	41.46
1.000	1.000	130.6	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	26.29	6.2641E-03	78.12	87.99	78.12	87.99	V-C	7167.	-10.400	43.48
1.000	1.000	131.5	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	26.48	5.9931E-03	79.91	86.89	79.91	86.89	V-C	7167.	-10.600	45.49
1.000	1.000	132.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	26.67	5.7270E-03	81.70	85.83	81.70	85.83	V-C	7167.	-10.800	47.50
1.000	1.000	133.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	26.86	5.4658E-03	83.48	84.80	83.48	84.80	V-C	7167.	-11.000	49.52
1.000	1.000	134.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	27.07	5.2099E-03	85.27	83.82	85.27	83.82	V-C	7167.	-11.200	51.53
1.000	1.000	135.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	27.28	4.9591E-03	87.06	82.87	87.06	82.87	V-C	7167.	-11.400	53.54
1.000	1.000	136.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	27.50	4.7138E-03	88.85	81.95	88.85	81.95	V-C	7167.	-11.600	55.55
1.000	1.000	137.5	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	27.73	4.4741E-03	90.63	81.08	90.63	81.08	V-C 7167.	-11.80	57.57	
1.000	1.000	138.6	0.000	0.000	2.045	2.045	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	27.97	4.2400E-03	92.42	80.25	92.42	80.25	V-C 7167.	-12.00	59.58	
1.000	1.000	139.8	0.000	0.000	2.045	2.045	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	41.46	4.0119E-03	94.33	145.7	94.33	145.7	V-C 2.3669E+04	-12.20	61.59	
1.000	1.000	207.3	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	41.01	3.7898E-03	96.42	141.5	96.42	141.5	V-C 2.3669E+04	-12.40	63.60	
1.000	1.000	205.1	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.60	3.5739E-03	98.50	137.4	98.50	137.4	V-C 2.3669E+04	-12.60	65.62	
1.000	1.000	203.0	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	40.21	3.3644E-03	100.6	133.4	100.6	133.4	V-C 2.3669E+04	-12.80	67.63	
1.000	1.000	201.0	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	39.85	3.1613E-03	102.7	129.6	102.7	129.6	V-C 2.3669E+04	-13.00	69.64	
1.000	1.000	199.2	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	39.52	2.9649E-03	104.8	125.9	104.8	125.9	V-C 2.3669E+04	-13.20	71.65	
1.000	1.000	197.6	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	39.22	2.7751E-03	106.9	122.4	106.9	122.4	V-C 2.3669E+04	-13.40	73.67	
1.000	1.000	196.1	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	38.96	2.5921E-03	108.9	119.1	108.9	119.1	V-C 2.3669E+04	-13.60	75.68	
1.000	1.000	194.8	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.73	2.4159E-03	111.0	115.9	111.0	115.9	V-C 2.3669E+04	-13.80	77.69	
1.000	1.000	193.6	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	38.53	2.2466E-03	113.1	112.9	113.1	112.9	V-C 2.3669E+04	-14.00	79.71	
1.000	1.000	192.6	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	41.44	2.0842E-03	115.4	125.5	115.4	125.5	V-C 3.1023E+04	-14.20	81.72	
1.000	1.000	207.2	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	41.12	1.9288E-03	117.8	121.9	117.8	121.9	V-C 3.1023E+04	-14.40	83.73	
1.000	1.000	205.6	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	40.84	1.7803E-03	120.3	118.5	120.3	118.5	V-C 3.1023E+04	-14.60	85.74	
1.000	1.000	204.2	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	40.61	1.6388E-03	122.8	115.3	122.8	115.3	V-C 3.1023E+04	-14.80	87.76	
1.000	1.000	203.0	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.42	1.5042E-03	125.3	112.3	125.3	112.3	V-C 3.1023E+04	-15.00	89.77	
1.000	1.000	202.1	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	40.27	1.3764E-03	127.8	109.5	127.8	109.5	V-C 3.1023E+04	-15.20	91.78	
1.000	1.000	201.3	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	40.16	1.2553E-03	130.3	107.0	130.3	107.0	V-C 3.1023E+04	-15.40	93.79	
1.000	1.000	200.8	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	40.09	1.1407E-03	132.8	104.6	132.8	104.6	V-C 3.1023E+04	-15.60	95.81	
1.000	1.000	200.5	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	39.97	1.0326E-03	135.3	102.0	135.3	102.7	UL-RL 9.3069E+04	-15.80	97.82	
1.000	1.000	199.9	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	39.90	9.3069E-04	137.7	99.65	137.7	101.0	UL-RL 9.3069E+04	-16.00	99.83	
1.000	1.000	199.5	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	39.87	8.3480E-04	140.2	97.51	140.2	99.39	UL-RL 9.3069E+04	-16.20	101.8	
1.000	1.000	199.4	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	39.89	7.4471E-04	142.7	95.59	142.7	97.97	UL-RL 9.3069E+04	-16.40	103.9	
1.000	1.000	199.4	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	39.95	6.6018E-04	145.2	93.88	145.2	96.70	UL-RL 9.3069E+04	-16.60	105.9	
1.000	1.000	199.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	40.05	5.8095E-04	147.7	92.37	147.7	95.58	UL-RL 9.3069E+04	-16.80	107.9	
1.000	1.000	200.3	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	40.19	5.0675E-04	150.2	91.06	150.2	94.59	UL-RL 9.3069E+04	-17.00	109.9	
1.000	1.000	201.0	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	40.37	4.3729E-04	152.7	89.92	152.7	93.74	UL-RL 9.3069E+04	-17.20	111.9	
1.000	1.000	201.8	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	40.57	3.7227E-04	155.2	88.95	155.2	93.01	UL-RL 9.3069E+04	-17.40	113.9	
1.000	1.000	202.9	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	40.81	3.1139E-04	157.6	88.14	157.6	92.39	UL-RL 9.3069E+04	-17.60	115.9	
1.000	1.000	204.1	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	41.08	2.5431E-04	160.1	87.47	160.1	91.89	UL-RL 9.3069E+04	-17.80	117.9	

1.000	1.000	205.4	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	41.38	2.0072E-04	162.6	86.92	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	206.9	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	41.69	1.5031E-04	165.1	86.49	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	208.5	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	41.75	1.0275E-04	167.6	84.76	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	208.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	41.65	5.7732E-05	170.1	82.23	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	208.2	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	41.58	1.4950E-05	172.6	79.88	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	207.9	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	41.54	-2.5889E-05	175.1	77.68	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	207.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	41.53	-6.5067E-05	177.5	75.61	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	207.6	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	41.54	-1.0285E-04	180.0	73.65	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	207.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	41.57	-1.3947E-04	182.5	71.78	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	207.8	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	41.61	-1.7517E-04	185.0	69.98	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	208.1	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	41.67	-2.1014E-04	187.5	68.25	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	208.3	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	41.73	-2.4458E-04	190.0	66.55	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	208.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	41.80	-2.7863E-04	192.5	64.89	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	209.0	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	41.87	-3.1243E-04	195.0	63.24	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	209.4	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	41.95	-3.4609E-04	197.4	61.61	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	209.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	42.03	-3.7968E-04	199.9	59.98	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	210.1	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.05	-4.1324E-04	202.4	58.36	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	210.5	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58           |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.46220	-0.46220	4.33466E-10	9.24400E-02
2	1.5888	-1.5888	-9.24400E-02	0.41019
3	2.9175	-2.9175	-0.41019	0.99369
4	4.4484	-4.4484	-0.99369	1.8834
5	6.1814	-6.1814	-1.8834	3.1196
6	8.1166	-8.1166	-3.1196	4.7430
7	10.254	-10.254	-4.7430	6.7938
8	12.593	-12.593	-6.7938	9.3124
9	15.135	-15.135	-9.3124	12.339
10	17.879	-17.879	-12.339	15.915
11	20.825	-20.825	-15.915	20.080
12	23.973	-23.973	-20.080	24.875
13	27.323	-27.323	-24.875	30.340
14	30.876	-30.876	-30.340	36.515
15	34.631	-34.631	-36.515	43.441

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

WallElement_New_75260 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	38.596	-38.596	-43.441	51.160
2	42.772	-42.772	-51.160	59.714
3	47.150	-47.150	-59.714	69.144
4	51.730	-51.730	-69.144	79.491
5	56.513	-56.513	-79.491	90.793
6	65.630	-65.630	-90.793	103.92
7	73.266	-73.266	-103.92	118.57
8	79.892	-79.892	-118.57	134.55
9	85.506	-85.506	-134.55	151.65
10	90.110	-90.110	-151.65	169.67
11	93.704	-93.704	-169.67	188.41
12	96.287	-96.287	-188.41	207.67
13	97.859	-97.859	-207.67	227.24
14	98.420	-98.420	-227.24	246.93
15	97.971	-97.971	-246.93	266.52
16	96.582	-96.582	-266.52	285.84
17	94.633	-94.633	-285.84	304.76
18	92.344	-92.344	-304.76	323.23
19	89.713	-89.713	-323.23	341.18
20	86.740	-86.740	-341.18	358.52
21	83.425	-83.425	-358.52	375.21
22	79.767	-79.767	-375.21	391.16
23	75.767	-75.767	-391.16	406.32
24	71.692	-71.692	-406.32	420.65
25	68.161	-68.161	-420.65	434.29
26	65.171	-65.171	-434.29	447.32
27	62.716	-62.716	-447.32	459.86
28	60.791	-60.791	-459.86	472.02
29	59.391	-59.391	-472.02	483.90
30	58.511	-58.511	-483.90	495.60
31	58.144	-58.144	-495.60	507.23
32	58.286	-58.286	-507.23	518.89
33	58.930	-58.930	-518.89	530.67
34	60.070	-60.070	-530.67	542.69
35	61.700	-61.700	-542.69	555.03
36	63.815	-63.815	-555.03	567.79
37	66.406	-66.406	-567.79	581.07
38	69.468	-69.468	-581.07	594.97
39	72.994	-72.994	-594.97	609.57
40	76.977	-76.977	-609.57	624.96
41	81.409	-81.409	-624.96	641.24
42	86.284	-86.284	-641.24	658.50
43	91.594	-91.594	-658.50	676.82
44	97.330	-97.330	-676.82	696.28
45	103.49	-103.49	-696.28	716.98
46	110.05	-110.05	-716.98	738.99
47	96.997	-96.997	-738.99	758.39
48	85.023	-85.023	-758.39	775.40
49	74.103	-74.103	-775.40	790.22
50	64.205	-64.205	-790.22	803.06
51	55.298	-55.298	-803.06	814.12
52	47.352	-47.352	-814.12	823.59
53	40.335	-40.335	-823.59	831.65
54	34.215	-34.215	-831.65	838.50
55	28.959	-28.959	-838.50	844.29
56	24.535	-24.535	-844.29	849.20
57	4.4231	-4.4231	-849.20	850.08
58	-14.721	14.721	-850.08	847.14
59	-32.940	32.940	-847.14	840.55
60	-50.277	50.277	-840.55	830.49
61	-66.775	66.775	-830.49	817.14
62	-82.464	82.464	-817.14	800.65
63	-97.156	97.156	-800.65	781.21
64	-110.92	110.92	-781.21	759.03
65	-123.71	123.71	-759.03	734.29
66	-135.61	135.61	-734.29	707.17
67	-146.68	146.68	-707.17	677.83
68	-156.98	156.98	-677.83	646.43
69	-166.58	166.58	-646.43	613.12
70	-175.53	175.53	-613.12	578.01

71	-183.63	183.63	-578.01	541.28
72	-189.55	189.55	-541.28	503.37
73	-193.42	193.42	-503.37	464.69
74	-195.38	195.38	-464.69	425.61
75	-195.54	195.54	-425.61	386.50
76	-194.03	194.03	-386.50	347.70
77	-190.94	190.94	-347.70	309.51
78	-186.08	186.08	-309.51	272.29
79	-179.36	179.36	-272.29	236.42
80	-170.86	170.86	-236.42	202.25
81	-160.85	160.85	-202.25	170.08
82	-149.78	149.78	-170.08	140.12
83	-137.76	137.76	-140.12	112.57
84	-124.82	124.82	-112.57	87.607
85	-110.99	110.99	-87.607	65.409
86	-96.280	96.280	-65.409	46.153
87	-80.706	80.706	-46.153	30.011
88	-64.277	64.277	-30.011	17.156
89	-46.999	46.999	-17.156	7.7560
90	-28.874	28.874	-7.7560	1.9811
91	-9.9060	9.9060	-1.9811	-8.72902E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:58           |
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F I N A L I N C R E M E N T A L A N A L Y S I S

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	6
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME ... 0.07 [sec]

DATABASE CREATION CPU TIME..... 0.20 [sec]

8.3. Design Assumption : SLE (Rara/Frequente/Quasi Permanente) - File di Paratie - File di input (.d)

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* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara/Frequente/Quasi Permanente)
* Time:venerdi 28 gennaio 2022 15:34:58
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_36 0 -21.2 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_36 -21.2 0 1 0
SOIL 0_R LeftWall_36 -21.2 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Rilevato_76031_14_L_0)
*
LDATA Rilevato_76031_14_L_0 15 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 35 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 40000 40000
ENDL
*
* Soil Profile (Ala_76024_15_L_0)
*
LDATA Ala_76024_15_L_0 -4 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 2 25 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 30000 90000
ENDL
*
* Soil Profile (Salt_175_16_L_0)
*
LDATA Salt_175_16_L_0 -12.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 20.5 10.5 10
PERMEABILITY 1E-05
RESISTANCE 10 27 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 1.03E+05 3.09E+05
ENDL
*
* Soil Profile (Pa_37608_76032_L_0)
*
LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 22.5 12.5 10
PERMEABILITY 1E-05
RESISTANCE 50 27 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 1.35E+05 4.05E+05
ENDL

* 5: Defining structural materials
* Steel material: 114 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_114 2.06E+08
* Concrete material: 112 Name=C32/40 E=33345800 kPa
MATERIAL C3240_112 3.3346E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
** rev 2021 and later
BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0

* 6.2: Supports
```



```

* 6.3: Strips
STRIP LeftWall_36 1 1 11.4 9.9 4.7 40 45

* 7: Defining Steps
STEP Finale_40504
CHANGE Rilevato_76031_14_L_0 U-FRICT=35 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-FRICT=35 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KA=0.266 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KP=9.735 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KA=0.235 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KP=5.879 LeftWall_36
CHANGE Ala_76024_15_L_0 U-FRICT=25 LeftWall_36
CHANGE Ala_76024_15_L_0 D-FRICT=25 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KA=0.689 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KP=4.351 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KA=0.322 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KP=2.38 LeftWall_36
CHANGE Salt_175_16_L_0 U-FRICT=27 LeftWall_36
CHANGE Salt_175_16_L_0 D-FRICT=27 LeftWall_36
CHANGE Salt_175_16_L_0 U-KA=0.557 LeftWall_36
CHANGE Salt_175_16_L_0 U-KP=4.793 LeftWall_36
CHANGE Salt_175_16_L_0 D-KA=0.298 LeftWall_36
CHANGE Salt_175_16_L_0 D-KP=2.641 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KA=0.496 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KP=4.484 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KA=0.298 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KP=2.687 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 U-COHE=2 LeftWall_36
CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 D-COHE=2 LeftWall_36
CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ADD WallElement_11138 WallElement_New_75260
ENDSTEP

STEP StageA_205794
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

STEP Sisma_79386
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

```

8.4. Design Assumption : SLE (Rara/Frequente/Quasi Permanente) - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS(TM)   NLS ENGINE RELEASE   2022.0.0   FULL VERSION   *Build date:Sep 13, 2021*          |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
+-----+

*****
*                                                                                               *
*   PARATIE PLUS Non-Linear Spring Engine                                                       *
*                                                                                               *
*                                                                                               *
*   AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                                    *
*                                                                                               *

```

```

*           FOR FLEXIBLE EARTH-RETAINING STRUCTURES           *
*                                                                 *
*           Written by CEAS s.r.l. (ITALY)                     *
*           with the scientific supervision of                   *
*           Roberto Nova - full professor SOIL MECHANICS      *
*           at Politecnico di Milano (ITALY)                   *
*                                                                 *
*****
*                                                                 *
*   RELEASE   2022.0.0   *Build date:Sep 13, 2021*             *
*                                                                 *
*   CEAS S.R.L VIALE   GIUSTINIANO 10                         *
*   20129   M I L A N O   (ITALIA)                             *
*   TEL.    +39 02 2020221                                     *
*                                                                 *
*   email   bruno.becci@ceas.it                               *
*   Web Page www.ceas.it   www.paratieplus.com                 *
*****

```

JOB : ParatiePlus

STARTING

```

ACCEPTED &lt;FILE,GENW                                     &gt;
ACCEPTED &lt;FILE,PLOTTER,BINARY                           &gt;
ACCEPTED &lt;SOLVE TOTAL_STRESS                             &gt;
ACCEPTED &lt;PARAM ITEMAX 40                                 &gt;
ACCEPTED &lt;CONTROL CONTACT LAGRANGE                       &gt;
ACCEPTED &lt;CONTROL HINGES 0 0.0001 0.001                 &gt;

```

```

*****
*                                                                 *
*   WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED      *
*   BY THE PROGRAM.                                          *
*****

```

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 107
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 214
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 109
NO. OF LONG NAMES (LASTNAME) ..... 17
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
MAX INELASTIC DISPL. TABLE LENGTH..... 0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

```

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F

```

RELEVANT ITEMS UNITS

```

STRESSES                kPa
Y-DISPLACEMENTS        m
ROTATIONS                RADIANS
BEAM AND SLAB MOMENTS   kN*m/m
BEAM SHEAR FORCES       kN/m
ANCHOR FORCES           kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS    kN/m
Y-REACTIONS             kN/m
X-MOMENT REACTIONS      kN*m/m
ETC.

```

-----+-----
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021* |
| | |

| ParatiePlus |
| Exe Time :28 January 2022 15:34:59 |
| | |

-----+-----
| P R E P R O C E S S O R D A T A |

N O . O F C O M M A N D S 109

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control contact lagrange
6 : option control hinges 0 0.0001 0.001
7 : WALL LeftWall_36 0 -21.2 0 1
8 : SOIL 0_L LeftWall_36 -21.2 0 1 0
9 : SOIL 0_R LeftWall_36 -21.2 0 2 180
10 : LDATA Rilevato_76031_14_L_0 15 LeftWall_36
11 : ATREST 0.5 0.5 1
12 : WEIGHT 19 9 10
13 : PERMEABILITY 1E-05
14 : RESISTANCE 0 35 0 0 0
15 : TZDATA LINEAR 0 0 0 0.5 0
16 : KSCALE 0 0
17 : YOUNG 40000 40000
18 : ENDL
19 : LDATA Ala_76024_15_L_0 -4 LeftWall_36
20 : ATREST 0.5 0.5 1
21 : WEIGHT 19 9 10
22 : PERMEABILITY 1E-05
23 : RESISTANCE 2 25 0 0 0
24 : TZDATA LINEAR 0 0 0 0.5 0
25 : KSCALE 0 0
26 : YOUNG 30000 90000
27 : ENDL
28 : LDATA Salt_175_16_L_0 -12.12 LeftWall_36
29 : ATREST 0.5 0.5 1
30 : WEIGHT 20.5 10.5 10
31 : PERMEABILITY 1E-05
32 : RESISTANCE 10 27 0 0 0
33 : TZDATA LINEAR 10000 0 25 0.5 0
34 : KSCALE 0 0
35 : YOUNG 1.03E+05 3.09E+05
36 : ENDL
37 : LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
38 : ATREST 0.5 0.5 1
39 : WEIGHT 22.5 12.5 10
40 : PERMEABILITY 1E-05
41 : RESISTANCE 50 27 0 0 0
42 : TZDATA LINEAR 0 0 0 0.5 0
43 : KSCALE 0 0
44 : YOUNG 1.35E+05 4.05E+05
45 : ENDL
46 : MATERIAL Fe360_114 2.06E+08
47 : MATERIAL C3240_112 3.3346E+07
48 : BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
49 : BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0
50 : STRIP LeftWall_36 1 1 11.4 9.9 4.7 40 45
51 : STEP Finale_40504
52 : CHANGE Rilevato_76031_14_L_0 U-FRICT=35 LeftWall_36
53 : CHANGE Rilevato_76031_14_L_0 D-FRICT=35 LeftWall_36
54 : CHANGE Rilevato_76031_14_L_0 U-KA=0.266 LeftWall_36
55 : CHANGE Rilevato_76031_14_L_0 U-KP=9.735 LeftWall_36
56 : CHANGE Rilevato_76031_14_L_0 D-KA=0.235 LeftWall_36
57 : CHANGE Rilevato_76031_14_L_0 D-KP=5.879 LeftWall_36
58 : CHANGE Ala_76024_15_L_0 U-FRICT=25 LeftWall_36
59 : CHANGE Ala_76024_15_L_0 D-FRICT=25 LeftWall_36
60 : CHANGE Ala_76024_15_L_0 U-KA=0.689 LeftWall_36
61 : CHANGE Ala_76024_15_L_0 U-KP=4.351 LeftWall_36
62 : CHANGE Ala_76024_15_L_0 D-KA=0.322 LeftWall_36
63 : CHANGE Ala_76024_15_L_0 D-KP=2.38 LeftWall_36
64 : CHANGE Salt_175_16_L_0 U-FRICT=27 LeftWall_36
65 : CHANGE Salt_175_16_L_0 D-FRICT=27 LeftWall_36
66 : CHANGE Salt_175_16_L_0 U-KA=0.557 LeftWall_36
67 : CHANGE Salt_175_16_L_0 U-KP=4.793 LeftWall_36
68 : CHANGE Salt_175_16_L_0 D-KA=0.298 LeftWall_36
69 : CHANGE Salt_175_16_L_0 D-KP=2.641 LeftWall_36
70 : CHANGE Pa_37608_76032_L_0 U-FRICT=27 LeftWall_36
71 : CHANGE Pa_37608_76032_L_0 D-FRICT=27 LeftWall_36
72 : CHANGE Pa_37608_76032_L_0 U-KA=0.496 LeftWall_36
73 : CHANGE Pa_37608_76032_L_0 U-KP=4.484 LeftWall_36
74 : CHANGE Pa_37608_76032_L_0 D-KA=0.298 LeftWall_36
75 : CHANGE Pa_37608_76032_L_0 D-KP=2.687 LeftWall_36
76 : CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
77 : CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
78 : CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
79 : CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36

```
80 : CHANGE Ala_76024_15_L_0 U-COHE=2 LeftWall_36
81 : CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
82 : CHANGE Ala_76024_15_L_0 D-COHE=2 LeftWall_36
83 : CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
84 : CHANGE Salt_175_16_L_0 U-COHE=10 LeftWall_36
85 : CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
86 : CHANGE Salt_175_16_L_0 D-COHE=10 LeftWall_36
87 : CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
88 : CHANGE Pa_37608_76032_L_0 U-COHE=50 LeftWall_36
89 : CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
90 : CHANGE Pa_37608_76032_L_0 D-COHE=50 LeftWall_36
91 : CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
92 : SETWALL LeftWall_36
93 : GEOM 0 -4
94 : SURCHARGE 0 0 0 0
95 : WATER -5.8866 0.1931 -21.2 0 0
96 : ADD WallElement_11138 WallElement_New_75260
97 : ENDSTEP
98 : STEP StageA_205794
99 : SETWALL LeftWall_36
100 : GEOM 0 -4
101 : SURCHARGE 0 0 0 0
102 : WATER -5.8866 0.1931 -21.2 0 0
103 : ENDSTEP
104 : STEP Sisma_79386
105 : SETWALL LeftWall_36
106 : GEOM 0 -4
107 : SURCHARGE 0 0 0 0
108 : WATER -5.8866 0.1931 -21.2 0 0
109 : ENDSTEP
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
+-----+

```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /				
1	0.0000	0.0000	/	2	0.0000	-0.20000	/	3	0.0000	-0.40000	/	4	0.0000	-0.60000	/
5	0.0000	-0.80000	/	6	0.0000	-1.0000	/	7	0.0000	-1.2000	/	8	0.0000	-1.4000	/
9	0.0000	-1.6000	/	10	0.0000	-1.8000	/	11	0.0000	-2.0000	/	12	0.0000	-2.2000	/
13	0.0000	-2.4000	/	14	0.0000	-2.6000	/	15	0.0000	-2.8000	/	16	0.0000	-3.0000	/
17	0.0000	-3.2000	/	18	0.0000	-3.4000	/	19	0.0000	-3.6000	/	20	0.0000	-3.8000	/
21	0.0000	-4.0000	/	22	0.0000	-4.2000	/	23	0.0000	-4.4000	/	24	0.0000	-4.6000	/
25	0.0000	-4.8000	/	26	0.0000	-5.0000	/	27	0.0000	-5.2000	/	28	0.0000	-5.4000	/
29	0.0000	-5.6000	/	30	0.0000	-5.8000	/	31	0.0000	-6.0000	/	32	0.0000	-6.2000	/
33	0.0000	-6.4000	/	34	0.0000	-6.6000	/	35	0.0000	-6.8000	/	36	0.0000	-7.0000	/
37	0.0000	-7.2000	/	38	0.0000	-7.4000	/	39	0.0000	-7.6000	/	40	0.0000	-7.8000	/
41	0.0000	-8.0000	/	42	0.0000	-8.2000	/	43	0.0000	-8.4000	/	44	0.0000	-8.6000	/
45	0.0000	-8.8000	/	46	0.0000	-9.0000	/	47	0.0000	-9.2000	/	48	0.0000	-9.4000	/
49	0.0000	-9.6000	/	50	0.0000	-9.8000	/	51	0.0000	-10.0000	/	52	0.0000	-10.200	/
53	0.0000	-10.400	/	54	0.0000	-10.600	/	55	0.0000	-10.800	/	56	0.0000	-11.000	/
57	0.0000	-11.200	/	58	0.0000	-11.400	/	59	0.0000	-11.600	/	60	0.0000	-11.800	/
61	0.0000	-12.000	/	62	0.0000	-12.200	/	63	0.0000	-12.400	/	64	0.0000	-12.600	/
65	0.0000	-12.800	/	66	0.0000	-13.000	/	67	0.0000	-13.200	/	68	0.0000	-13.400	/
69	0.0000	-13.600	/	70	0.0000	-13.800	/	71	0.0000	-14.000	/	72	0.0000	-14.200	/
73	0.0000	-14.400	/	74	0.0000	-14.600	/	75	0.0000	-14.800	/	76	0.0000	-15.000	/
77	0.0000	-15.200	/	78	0.0000	-15.400	/	79	0.0000	-15.600	/	80	0.0000	-15.800	/
81	0.0000	-16.000	/	82	0.0000	-16.200	/	83	0.0000	-16.400	/	84	0.0000	-16.600	/
85	0.0000	-16.800	/	86	0.0000	-17.000	/	87	0.0000	-17.200	/	88	0.0000	-17.400	/
89	0.0000	-17.600	/	90	0.0000	-17.800	/	91	0.0000	-18.000	/	92	0.0000	-18.200	/
93	0.0000	-18.400	/	94	0.0000	-18.600	/	95	0.0000	-18.800	/	96	0.0000	-19.000	/
97	0.0000	-19.200	/	98	0.0000	-19.400	/	99	0.0000	-19.600	/	100	0.0000	-19.800	/
101	0.0000	-20.000	/	102	0.0000	-20.200	/	103	0.0000	-20.400	/	104	0.0000	-20.600	/
105	0.0000	-20.800	/	106	0.0000	-21.000	/	107	0.0000	-21.200	/				

```

+-----+
|           PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021* |
|                                                                           |
|                               ParatiePlus                               |
|                               Exe Time :28 January 2022   15:34:59      |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
  5 107  0  1  0  0  0  0  0  0  0  0  0  0  0  0  4  0  0  0  0

```

```

.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

stage status

```

-----
  1 active
  2 active
  3 active

```

material set no. 1

```

prop( 1) angle           0.00000
prop( 2) layer as foreseen 1.00000

```

material set no. 2

```

prop( 1) angle           0.00000
prop( 2) layer as foreseen 2.00000

```

material set no. 3

```

prop( 1) angle           0.00000
prop( 2) layer as foreseen 3.00000

```

material set no. 4

```

prop( 1) angle           0.00000
prop( 2) layer as foreseen 4.00000

```

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000

39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	2	0.2000	0.000	0.000	0.000	1.000
42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	4	0.2000	0.000	0.000	0.000	1.000
73	73	4	0.2000	0.000	0.000	0.000	1.000
74	74	4	0.2000	0.000	0.000	0.000	1.000
75	75	4	0.2000	0.000	0.000	0.000	1.000
76	76	4	0.2000	0.000	0.000	0.000	1.000
77	77	4	0.2000	0.000	0.000	0.000	1.000
78	78	4	0.2000	0.000	0.000	0.000	1.000
79	79	4	0.2000	0.000	0.000	0.000	1.000
80	80	4	0.2000	0.000	0.000	0.000	1.000
81	81	4	0.2000	0.000	0.000	0.000	1.000
82	82	4	0.2000	0.000	0.000	0.000	1.000
83	83	4	0.2000	0.000	0.000	0.000	1.000
84	84	4	0.2000	0.000	0.000	0.000	1.000
85	85	4	0.2000	0.000	0.000	0.000	1.000
86	86	4	0.2000	0.000	0.000	0.000	1.000
87	87	4	0.2000	0.000	0.000	0.000	1.000
88	88	4	0.2000	0.000	0.000	0.000	1.000
89	89	4	0.2000	0.000	0.000	0.000	1.000
90	90	4	0.2000	0.000	0.000	0.000	1.000
91	91	4	0.2000	0.000	0.000	0.000	1.000
92	92	4	0.2000	0.000	0.000	0.000	1.000
93	93	4	0.2000	0.000	0.000	0.000	1.000
94	94	4	0.2000	0.000	0.000	0.000	1.000
95	95	4	0.2000	0.000	0.000	0.000	1.000
96	96	4	0.2000	0.000	0.000	0.000	1.000
97	97	4	0.2000	0.000	0.000	0.000	1.000
98	98	4	0.2000	0.000	0.000	0.000	1.000
99	99	4	0.2000	0.000	0.000	0.000	1.000
100	100	4	0.2000	0.000	0.000	0.000	1.000
101	101	4	0.2000	0.000	0.000	0.000	1.000
102	102	4	0.2000	0.000	0.000	0.000	1.000
103	103	4	0.2000	0.000	0.000	0.000	1.000
104	104	4	0.2000	0.000	0.000	0.000	1.000
105	105	4	0.2000	0.000	0.000	0.000	1.000
106	106	4	0.2000	0.000	0.000	0.000	1.000
107	107	4	0.1000	0.000	0.000	0.000	1.000


```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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```

ELEMENT GROUP NO. 2

```

0_R
 5 107  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  0  0  0  0

```

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active

```

material set no. 1
prop(1) angle 180.000
prop(2) layer as foreseen 1.00000

material set no. 2
prop(1) angle 180.000
prop(2) layer as foreseen 2.00000

material set no. 3
prop(1) angle 180.000
prop(2) layer as foreseen 3.00000

material set no. 4
prop(1) angle 180.000
prop(2) layer as foreseen 4.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000

39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	2	0.2000	0.000	0.000	0.000	2.000
42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	4	0.2000	0.000	0.000	0.000	2.000
73	73	4	0.2000	0.000	0.000	0.000	2.000
74	74	4	0.2000	0.000	0.000	0.000	2.000
75	75	4	0.2000	0.000	0.000	0.000	2.000
76	76	4	0.2000	0.000	0.000	0.000	2.000
77	77	4	0.2000	0.000	0.000	0.000	2.000
78	78	4	0.2000	0.000	0.000	0.000	2.000
79	79	4	0.2000	0.000	0.000	0.000	2.000
80	80	4	0.2000	0.000	0.000	0.000	2.000
81	81	4	0.2000	0.000	0.000	0.000	2.000
82	82	4	0.2000	0.000	0.000	0.000	2.000
83	83	4	0.2000	0.000	0.000	0.000	2.000
84	84	4	0.2000	0.000	0.000	0.000	2.000
85	85	4	0.2000	0.000	0.000	0.000	2.000
86	86	4	0.2000	0.000	0.000	0.000	2.000
87	87	4	0.2000	0.000	0.000	0.000	2.000
88	88	4	0.2000	0.000	0.000	0.000	2.000
89	89	4	0.2000	0.000	0.000	0.000	2.000
90	90	4	0.2000	0.000	0.000	0.000	2.000
91	91	4	0.2000	0.000	0.000	0.000	2.000
92	92	4	0.2000	0.000	0.000	0.000	2.000
93	93	4	0.2000	0.000	0.000	0.000	2.000
94	94	4	0.2000	0.000	0.000	0.000	2.000
95	95	4	0.2000	0.000	0.000	0.000	2.000
96	96	4	0.2000	0.000	0.000	0.000	2.000
97	97	4	0.2000	0.000	0.000	0.000	2.000
98	98	4	0.2000	0.000	0.000	0.000	2.000
99	99	4	0.2000	0.000	0.000	0.000	2.000
100	100	4	0.2000	0.000	0.000	0.000	2.000
101	101	4	0.2000	0.000	0.000	0.000	2.000
102	102	4	0.2000	0.000	0.000	0.000	2.000
103	103	4	0.2000	0.000	0.000	0.000	2.000
104	104	4	0.2000	0.000	0.000	0.000	2.000
105	105	4	0.2000	0.000	0.000	0.000	2.000
106	106	4	0.2000	0.000	0.000	0.000	2.000
107	107	4	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
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```

ELEMENT GROUP NO. 3

```

Wallelement_11138
2 15 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0
.....
.....2D WALL ELEMENT.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1  active
2  active
3  active

```

material set no. 1

```

prop( 1) young modulus      0.333500E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future ..... 0.00000

```

```

no. of step variable items: 1
step inertia multiplier
-----

```

```

1  1.000
2  1.000
3  1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
2	2	3	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
3	3	4	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
4	4	5	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
5	5	6	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
6	6	7	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
7	7	8	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
8	8	9	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
9	9	10	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
10	10	11	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
11	11	12	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
12	12	13	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
13	13	14	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
14	14	15	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
15	15	16	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
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```

ELEMENT GROUP NO. 4

WallElement_New_75260 :

2 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....
2D WALL ELEMENT.....

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active

```

material set no. 1

```

prop( 1) young modulus      0.333500E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future ..... 0.00000

```

no. of step variable items: 1

step inertia multiplier

```

-----
1 1.000
2 1.000
3 1.000

```

element data

el	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	16	17	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
2	17	18	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
3	18	19	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
4	19	20	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
5	20	21	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
6	21	22	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
7	22	23	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
8	23	24	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
9	24	25	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
10	25	26	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
11	26	27	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
12	27	28	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
13	28	29	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
14	29	30	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
15	30	31	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
16	31	32	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
17	32	33	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
18	33	34	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
19	34	35	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
20	35	36	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
21	36	37	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
22	37	38	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
23	38	39	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
24	39	40	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
25	40	41	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
26	41	42	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
27	42	43	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
28	43	44	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
29	44	45	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
30	45	46	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
31	46	47	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
32	47	48	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
33	48	49	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
34	49	50	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
35	50	51	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
36	51	52	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
37	52	53	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
38	53	54	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
39	54	55	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
40	55	56	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
41	56	57	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
42	57	58	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
43	58	59	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
44	59	60	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
45	60	61	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
46	61	62	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
47	62	63	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000

48	63	64	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
49	64	65	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
50	65	66	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
51	66	67	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
52	67	68	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
53	68	69	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
54	69	70	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
55	70	71	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
56	71	72	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
57	72	73	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
58	73	74	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
59	74	75	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
60	75	76	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
61	76	77	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
62	77	78	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
63	78	79	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
64	79	80	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
65	80	81	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
66	81	82	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
67	82	83	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
68	83	84	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
69	84	85	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
70	85	86	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
71	86	87	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
72	87	88	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
73	88	89	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
74	89	90	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
75	90	91	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
76	91	92	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
77	92	93	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
78	93	94	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
79	94	95	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
80	95	96	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
81	96	97	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
82	97	98	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
83	98	99	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
84	99	100	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
85	100	101	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
86	101	102	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
87	102	103	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
88	103	104	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
89	104	105	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
90	105	106	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
91	106	107	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:34:59          |
+-----+
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NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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L O A D      B A L A N C E

STEP  1  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  1  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP  2  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  2  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP  3  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  3  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

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LOAD INPUT SECTION COMPLETED


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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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NO. OF LAYERS ..... 4
NO. OF DATA PER LAYER..... 160
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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                                                                                               |
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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 10.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= 15.000  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 19.000  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 9.0000  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 35.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.26600  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 9.7350  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 40000.  (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 40000.  (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61&lt;U-TZALPH&gt;= 0.50000  (BOTH WALLS)
ITEM NO. 82&lt;D-NATURE&gt;= 1.0000  (BOTH WALLS)
ITEM NO. 83&lt;D-LEVEL  &gt;= 0.0000  (BOTH WALLS)
ITEM NO. 89&lt;D-FRICT  &gt;= 35.000  (BOTH WALLS)
ITEM NO. 90&lt;D-KA     &gt;= 0.23500  WALL NO.      1
ITEM NO. 91&lt;D-KP     &gt;= 5.8790  WALL NO.      1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000  (BOTH WALLS)

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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 11.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= -4.0000  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 19.000  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 9.0000  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  8&lt;U-COHE   &gt;= 2.0000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 25.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.68900  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 4.3510  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 30000.  (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 90000.  (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61&lt;U-TZALPH&gt;= 0.50000  (BOTH WALLS)
ITEM NO. 82&lt;D-NATURE&gt;= 1.0000  (BOTH WALLS)
ITEM NO. 83&lt;D-LEVEL  &gt;= 0.0000  (BOTH WALLS)
ITEM NO. 88&lt;D-COHE   &gt;= 2.0000  (BOTH WALLS)
ITEM NO. 89&lt;D-FRICT  &gt;= 25.000  (BOTH WALLS)
ITEM NO. 90&lt;D-KA     &gt;= 0.32200  WALL NO.      1
ITEM NO. 91&lt;D-KP     &gt;= 2.3800  WALL NO.      1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000  (BOTH WALLS)

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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 12.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= -12.120  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 20.500  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 10.500  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  8&lt;U-COHE   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 27.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.55700  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 4.7930  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58&lt;U-TZKZ   &gt;= 10000.  (BOTH WALLS)

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ITEM NO. 60<lt;U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<lt;U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<lt;D-NATURE>= 1.00000 (BOTH WALLS)
ITEM NO. 83<lt;D-LEVEL >= 0.00000 (BOTH WALLS)
ITEM NO. 88<lt;D-COHE >= 10.0000 (BOTH WALLS)
ITEM NO. 89<lt;D-FRICT >= 27.0000 (BOTH WALLS)
ITEM NO. 90<lt;D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<lt;D-KP >= 2.6410 WALL NO. 1
ITEM NO. 107<lt;D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<lt;D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<lt;D-TZDELT>= 25.0000 (BOTH WALLS)
ITEM NO. 141<lt;D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 1

ITEM NO. 1<lt;NAME >= 13.0000 (BOTH WALLS)
ITEM NO. 2<lt;NATURE >= 1.00000 (BOTH WALLS)
ITEM NO. 3<lt;LEVEL >= -14.120 (BOTH WALLS)
ITEM NO. 4<lt;WALL >= 1.00000 (BOTH WALLS)
ITEM NO. 5<lt;GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<lt;GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<lt;GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<lt;U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<lt;U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<lt;U-KA >= 0.49600 WALL NO. 1
ITEM NO. 11<lt;U-KP >= 4.4840 WALL NO. 1
ITEM NO. 12<lt;K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<lt;NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<lt;OCR >= 1.00000 (BOTH WALLS)
ITEM NO. 16<lt;MODEL >= 1.00000 (BOTH WALLS)
ITEM NO. 17<lt;EVC >= 0.13500E+06 (BOTH WALLS)
ITEM NO. 18<lt;EUR >= 0.40500E+06 (BOTH WALLS)
ITEM NO. 27<lt;U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<lt;U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<lt;D-NATURE>= 1.00000 (BOTH WALLS)
ITEM NO. 83<lt;D-LEVEL >= 0.00000 (BOTH WALLS)
ITEM NO. 88<lt;D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<lt;D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<lt;D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<lt;D-KP >= 2.6870 WALL NO. 1
ITEM NO. 107<lt;D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<lt;D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO. 1<lt;NAME >= 10.000 (BOTH WALLS)
ITEM NO. 2<lt;NATURE >= 1.00000 (BOTH WALLS)
ITEM NO. 3<lt;LEVEL >= 15.000 (BOTH WALLS)
ITEM NO. 4<lt;WALL >= 1.00000 (BOTH WALLS)
ITEM NO. 5<lt;GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<lt;GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<lt;GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<lt;U-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 10<lt;U-KA >= 0.26600 WALL NO. 1
ITEM NO. 11<lt;U-KP >= 9.7350 WALL NO. 1
ITEM NO. 12<lt;K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<lt;NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<lt;OCR >= 1.00000 (BOTH WALLS)
ITEM NO. 16<lt;MODEL >= 1.00000 (BOTH WALLS)
ITEM NO. 17<lt;EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<lt;EUR >= 40000. (BOTH WALLS)
ITEM NO. 27<lt;U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<lt;U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<lt;D-NATURE>= 1.00000 (BOTH WALLS)
ITEM NO. 83<lt;D-LEVEL >= 0.00000 (BOTH WALLS)
ITEM NO. 89<lt;D-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 90<lt;D-KA >= 0.23500 WALL NO. 1
ITEM NO. 91<lt;D-KP >= 5.8790 WALL NO. 1
ITEM NO. 107<lt;D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<lt;D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 2

ITEM NO. 1<lt;NAME >= 11.000 (BOTH WALLS)
ITEM NO. 2<lt;NATURE >= 1.00000 (BOTH WALLS)
ITEM NO. 3<lt;LEVEL >= -4.0000 (BOTH WALLS)
ITEM NO. 4<lt;WALL >= 1.00000 (BOTH WALLS)
ITEM NO. 5<lt;GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<lt;GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<lt;GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<lt;U-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 9<lt;U-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 10<lt;U-KA >= 0.68900 WALL NO. 1
ITEM NO. 11<lt;U-KP >= 4.3510 WALL NO. 1
ITEM NO. 12<lt;K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<lt;NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<lt;OCR >= 1.00000 (BOTH WALLS)
ITEM NO. 16<lt;MODEL >= 1.00000 (BOTH WALLS)
ITEM NO. 17<lt;EVC >= 30000. (BOTH WALLS)

ITEM NO. 18<EUR >= 90000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32200 WALL NO. 1
ITEM NO. 91<D-KP >= 2.3800 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -12.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.55700 WALL NO. 1
ITEM NO. 11<U-KP >= 4.7930 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6410 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 2

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -14.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49600 WALL NO. 1
ITEM NO. 11<U-KP >= 4.4840 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.13500E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.40500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6870 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 10.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 15.000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.26600 WALL NO. 1
ITEM NO. 11<U-KP >= 9.7350 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)

ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.23500 WALL NO. 1
ITEM NO. 91<D-KP >= 5.8790 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO. 1<NAME >= 11.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -4.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.68900 WALL NO. 1
ITEM NO. 11<U-KP >= 4.3510 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32200 WALL NO. 1
ITEM NO. 91<D-KP >= 2.3800 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -12.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.55700 WALL NO. 1
ITEM NO. 11<U-KP >= 4.7930 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6410 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 3

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -14.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49600 WALL NO. 1
ITEM NO. 11<U-KP >= 4.4840 WALL NO. 1

ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.00000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.00000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.00000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.00000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 50.000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 27.000	(BOTH WALLS)	
ITEM NO.	90	D-KA	>= 0.29800	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.6870	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	>= 0.50000	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 12 VALUES

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:34:59                            |
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PHASE DESCRIPTORS

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STEP NO.      1 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30
Z-PC           0.000            0.000
Z-EXCAVATION   -4.000          0.000
Z-WATER_TABLE  -5.887          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000            0.000
ZQ             0.000            0.000
DZW_OF_THE_WATER_TABLE  0.1931           0.000
QS_ON_THE_EXCAVATION_SIDE  0.000            0.000
ZQS            0.000          -0.9990E+30
ZCUT           0.000            0.000
BALANCE LEVEL FOR PORE PRESSURES  -21.20          -21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)  0.000            0.000
PORE_UPDATE_FLAG  0.000            0.000
PORE_TAB._FLAG (gt.0= use tabs)  0.000            0.000
lateral thrusts reduction elevatio  0.000            0.000
Downhill reduction factor for effe  0.000            0.000
Downhill reduction factor for pore  0.000            0.000
Uphill reduction factor for effect  0.000            0.000
Uphill reduction factor for pore p  0.000            0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]    0.000            0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]    0.000            0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]   0.000            0.000
UPHILL BETA ANGLE (SLOPE) [deg]    0.000            0.000
UPHILL DELTA/PHI RATIO              0.000            0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]   0.000            0.000
DOWNHILL DELTA/PHI RATIO            0.000            0.000
DYN.WATER BEHAVIOUR                 0.000            0.000
Excess pore pressure RATIO Ru       0.000            0.000
SEISMIC PRESSURE LOWER VALUE        0.000            0.000
SEISMIC PRESSURE UPPER VALUE        0.000            0.000
SEISMIC PRESSURE LOWER LEVEL        0.000            0.000
SEISMIC PRESSURE UPPER LEVEL        0.000            0.000

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=====end of step 1

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STEP NO.      2 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30
Z-PC           0.000            0.000
Z-EXCAVATION   -4.000          0.000
Z-WATER_TABLE  -5.887          -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000            0.000
ZQ             0.000            0.000
DZW_OF_THE_WATER_TABLE  0.1931           0.000
QS_ON_THE_EXCAVATION_SIDE  0.000            0.000
ZQS            0.000          -0.9990E+30
ZCUT           0.000            0.000
BALANCE LEVEL FOR PORE PRESSURES  -21.20          -21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)  0.000            0.000
PORE_UPDATE_FLAG  0.000            0.000
PORE_TAB._FLAG (gt.0= use tabs)  0.000            0.000
lateral thrusts reduction elevatio  0.000            0.000
Downhill reduction factor for effe  0.000            0.000
Downhill reduction factor for pore  0.000            0.000
Uphill reduction factor for effect  0.000            0.000
Uphill reduction factor for pore p  0.000            0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]    0.000            0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]    0.000            0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]   0.000            0.000
UPHILL BETA ANGLE (SLOPE) [deg]    0.000            0.000
UPHILL DELTA/PHI RATIO              0.000            0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]   0.000            0.000
DOWNHILL DELTA/PHI RATIO            0.000            0.000
DYN.WATER BEHAVIOUR                 0.000            0.000
Excess pore pressure RATIO Ru       0.000            0.000
SEISMIC PRESSURE LOWER VALUE        0.000            0.000
SEISMIC PRESSURE UPPER VALUE        0.000            0.000
SEISMIC PRESSURE LOWER LEVEL        0.000            0.000
SEISMIC PRESSURE UPPER LEVEL        0.000            0.000

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=====end of step 2

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STEP NO.      3 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30

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Z-PC	0.000	0.000
Z-EXCAVATION	-4.000	0.000
Z-WATER_TABLE	-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

=====
=====end of step 3

LEFT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000


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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:34:59                            |
+-----+

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I N I T I A L S T R E S S T A B L E S

S E C T I O N

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 1.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 11.400000000000000
FOUNDATION WIDTH (B) 9.900000000000000
ZETA-F..... 4.700000000000000
Q-F 40.000000000000000
BETA 45.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 5874

NO. OF D.P.W FOR THIS AREA 16376
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 40

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ITER    0  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.1763E+06 RIMNOR= 0.000
          RENORM= 5609.    REMNOR= 0.000        RATIO =0.1783    TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 58.02    RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT    =0.1763E+06 RDR    = 0.000
          RATIO=0.1783    RATIO= 0.000
          MAX UN= 8.228    IEQ=    39 NODE        20 DOF    1   Y-DISPL.F
          MIN UN= 0.000    IEQ=    2 NODE        1 DOF    2   X-ROT. F
          NO. OF CONTACT CONSTRAINT VIOLATIONS        0

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ITER    2  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.1763E+06 RIMNOR= 0.000
          RENORM= 3598.    REMNOR=0.5090E-17 RATIO =0.1428    TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 58.02    RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT    =0.1763E+06 RDR    = 0.000
          RATIO=0.1428    RATIO= 0.000
          MAX UN= 19.40    IEQ=    123 NODE       62 DOF    1   Y-DISPL.F
          MIN UN=-.3913    IEQ=    1 NODE        1 DOF    1   Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS        0

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ITER    3  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.1763E+06 RIMNOR= 0.000
          RENORM= 1709.    REMNOR=0.5617E-16 RATIO =0.9845E-01 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 58.02    RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT    =0.1763E+06 RDR    = 0.000
          RATIO=0.9845E-01 RATIO= 0.000
          MAX UN= 20.54    IEQ=    145 NODE       73 DOF    1   Y-DISPL.F
          MIN UN=-.1656E-07 IEQ=    39 NODE       20 DOF    1   Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS        0

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ITER    4  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.1763E+06 RIMNOR= 0.000
          RENORM= 37.84    REMNOR=0.2131E-16 RATIO =0.1465E-01 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 58.02    RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT    =0.1763E+06 RDR    = 0.000
          RATIO=0.1465E-01 RATIO= 0.000
          MAX UN= 4.729    IEQ=    165 NODE       83 DOF    1   Y-DISPL.F
          MIN UN=-.4769    IEQ=    191 NODE       96 DOF    1   Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS        0

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ITER    5  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.1763E+06 RIMNOR= 0.000
          RENORM=0.1148E-01 REMNOR=0.1487E-16 RATIO =0.2552E-03 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 58.02    RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000

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RDT =0.1763E+06 RDR = 0.000
RATIOT=0.2552E-03 RATIO= 0.000
MAX UN=0.2307E-07 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
MIN UN=-.7985E-01 IEQ= 197 NODE 99 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1763E+06 RIMNOR= 0.000
RENORM=0.7114E-04 REMNOR=0.1185E-16 RATIO =0.2009E-04 TOLER =0.1000E-03 CONVERGED !
RFMAX = 58.02 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1763E+06 RDR = 0.000
RATIOT=0.2009E-04 RATIO= 0.000
MAX UN=0.3618E-02 IEQ= 169 NODE 85 DOF 1 Y-DISPL.F
MIN UN=-.2260E-07 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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New Project
SOLUTION REACHED USING      6 ITERATIONS ON      40

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P R I N T   O U T   F O R   T I M E   S T E P   1   ( AT TIME   1.000   ) SUBINCREMENT 00001/00001

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PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

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	Y-DISPL.F	X-ROT. F
	02	04
1	2.0141480E-02	-1.4795175E-03
2	1.9845576E-02	-1.4795175E-03
3	1.9549673E-02	-1.4795156E-03
4	1.9253770E-02	-1.4795072E-03
5	1.8957871E-02	-1.4794847E-03
6	1.8661978E-02	-1.4794373E-03
7	1.8366098E-02	-1.4793515E-03
8	1.8070241E-02	-1.4792108E-03
9	1.7774419E-02	-1.4789957E-03
10	1.7478649E-02	-1.4786837E-03
11	1.7182954E-02	-1.4782495E-03
12	1.6887360E-02	-1.4776647E-03
13	1.6591900E-02	-1.4768979E-03
14	1.6296615E-02	-1.4759150E-03
15	1.6001551E-02	-1.4746785E-03
16	1.5706763E-02	-1.4731485E-03
17	1.5412236E-02	-1.4720842E-03
18	1.5117944E-02	-1.4708015E-03
19	1.4823932E-02	-1.4692726E-03
20	1.4530253E-02	-1.4674676E-03
21	1.4236966E-02	-1.4653553E-03
22	1.3944135E-02	-1.4628834E-03
23	1.3651841E-02	-1.4599848E-03
24	1.3360175E-02	-1.4566031E-03
25	1.3069236E-02	-1.4526920E-03
26	1.2779136E-02	-1.4482160E-03
27	1.2489989E-02	-1.4431499E-03
28	1.2201916E-02	-1.4374789E-03
29	1.1915040E-02	-1.4311988E-03
30	1.1629478E-02	-1.4243158E-03
31	1.1345352E-02	-1.4168465E-03
32	1.1062777E-02	-1.4088178E-03
33	1.0781860E-02	-1.4002648E-03
34	1.0502703E-02	-1.3912255E-03
35	1.0225401E-02	-1.3817351E-03
36	9.9500387E-03	-1.3718249E-03
37	9.6766976E-03	-1.3615225E-03
38	9.4054543E-03	-1.3508514E-03
39	9.1363804E-03	-1.3398312E-03
40	8.8695454E-03	-1.3284778E-03
41	8.6050120E-03	-1.3168031E-03
42	8.3428450E-03	-1.3048153E-03
43	8.0831064E-03	-1.2925188E-03
44	7.8258580E-03	-1.2799142E-03
45	7.5711628E-03	-1.2669986E-03
46	7.3190810E-03	-1.2537649E-03
47	7.0696787E-03	-1.2402027E-03
48	6.8230228E-03	-1.2262976E-03
49	6.5791837E-03	-1.2120315E-03
50	6.3382370E-03	-1.1973823E-03
51	6.1002593E-03	-1.1823242E-03
52	5.8653412E-03	-1.1668280E-03
53	5.6335642E-03	-1.1508602E-03
54	5.4050310E-03	-1.1343842E-03
55	5.1798471E-03	-1.1173597E-03
56	4.9581266E-03	-1.0997429E-03
57	4.7399926E-03	-1.0814865E-03
58	4.5255780E-03	-1.0625396E-03
59	4.3150264E-03	-1.0428481E-03
60	4.1084923E-03	-1.0223544E-03
61	3.9061421E-03	-1.0009978E-03
62	3.7081549E-03	-9.7871419E-04
63	3.5147175E-03	-9.5551508E-04
64	3.3260043E-03	-9.3148534E-04
65	3.1421736E-03	-9.0670195E-04
66	2.9633691E-03	-8.8123425E-04
67	2.7897214E-03	-8.5514412E-04
68	2.6213493E-03	-8.2848618E-04
69	2.4583616E-03	-8.0130801E-04
70	2.3008581E-03	-7.7365033E-04
71	2.1489311E-03	-7.4554726E-04
72	2.0026670E-03	-7.1702650E-04
73	1.8621425E-03	-6.8817717E-04
74	1.7274081E-03	-6.5914926E-04

75 1.5984851E-03 -6.3008565E-04
76 1.4753671E-03 -6.0112229E-04
77 1.3580209E-03 -5.7238862E-04
78 1.2463881E-03 -5.4400776E-04
79 1.1403865E-03 -5.1609688E-04
80 1.0399106E-03 -4.8876747E-04
81 9.4483364E-04 -4.6212561E-04
82 8.5500782E-04 -4.3627226E-04
83 7.7026576E-04 -4.1130355E-04
84 6.9042132E-04 -3.8731102E-04
85 6.1527046E-04 -3.6438188E-04
86 5.4459212E-04 -3.4259938E-04
87 4.7814903E-04 -3.2204199E-04
88 4.1568917E-04 -3.0277697E-04
89 3.5694870E-04 -2.8485518E-04
90 3.0165250E-04 -2.6831132E-04
91 2.4952801E-04 -2.5316805E-04
92 2.0029147E-04 -2.3943187E-04
93 1.5366182E-04 -2.2709729E-04
94 1.0936037E-04 -2.1614548E-04
95 6.7113667E-05 -2.0654304E-04
96 2.6656405E-05 -1.9824186E-04
97 -1.2265732E-05 -1.9118052E-04
98 -4.9893625E-05 -1.8528650E-04
99 -8.6452662E-05 -1.8047744E-04
100 -1.2215085E-04 -1.7666215E-04
101 -1.5717718E-04 -1.7374169E-04
102 -1.9170009E-04 -1.7160965E-04
103 -2.2586772E-04 -1.7015225E-04
104 -2.5979962E-04 -1.6924871E-04
105 -2.9359559E-04 -1.6877095E-04
106 -3.2732739E-04 -1.6858398E-04
107 -3.6103742E-04 -1.6854590E-04

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|                                     PARATIEPLUS(TM) NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*                                     |
|                                     |
|                                     ParatiePlus                                     |
|                                     Exe Time :28 January 2022  15:34:59                                     |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
TOR	UFACTOR	Peq	Su_a	Su_p	Cohe_a	Cohe_p	LAYER			ZFO	QS
QSL	ZD	ZPL	Kz								
1 D	1.0804E-02	-2.0141E-02	0.4062	0.1080	0.4062	4.021	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.1080	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2262	-1.9846E-02	4.252	1.131	4.252	6.027	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	1.131	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.4310	-1.9550E-02	8.101	2.155	8.101	8.027	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	2.155	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.6358	-1.9254E-02	11.95	3.179	11.95	10.02	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	3.179	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.8408	-1.8958E-02	15.81	4.204	15.81	12.01	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	4.204	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.046	-1.8662E-02	19.66	5.230	19.66	13.99	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	5.230	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.251	-1.8366E-02	23.52	6.256	23.52	15.96	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	6.256	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.457	-1.8070E-02	27.38	7.283	27.38	17.93	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	7.283	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	1.662	-1.7774E-02	31.24	8.310	31.24	19.89	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	8.310	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	1.867	-1.7479E-02	35.10	9.337	35.10	21.85	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	9.337	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.073	-1.7183E-02	38.97	10.37	38.97	23.80	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	10.37	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.279	-1.6887E-02	42.83	11.39	42.83	25.75	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	11.39	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	2.485	-1.6592E-02	46.70	12.42	46.70	27.69	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	12.42	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	2.690	-1.6297E-02	50.57	13.45	50.57	29.63	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	13.45	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	2.896	-1.6002E-02	54.44	14.48	54.44	31.56	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	14.48	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	3.102	-1.5707E-02	58.31	15.51	58.31	33.48	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	15.51	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	3.308	-1.5412E-02	62.18	16.54	62.18	35.40	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	16.54	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.514	-1.5118E-02	66.06	17.57	66.06	37.32	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	17.57	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.720	-1.4824E-02	69.93	18.60	69.93	39.23	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	18.60	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.926	-1.4530E-02	73.80	19.63	73.80	41.14	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	19.63	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	10.04	-1.4237E-02	77.68	50.20	77.68	50.20	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	50.20	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	10.57	-1.3944E-02	81.55	52.87	81.55	52.87	ACTIVE	0.000	-4.200	0.000	

1.000	1.000	52.87	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	11.11	-1.3652E-02	85.43	55.54	85.43	55.54	ACTIVE	0.000	-4.400	0.000
1.000	1.000	55.54	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	11.64	-1.3360E-02	89.30	58.21	89.30	58.21	ACTIVE	0.000	-4.600	0.000
1.000	1.000	58.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	12.18	-1.3069E-02	93.18	60.88	93.18	60.88	ACTIVE	0.000	-4.800	0.000
1.000	1.000	60.88	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	12.71	-1.2779E-02	97.05	63.55	97.05	63.55	ACTIVE	0.000	-5.000	0.000
1.000	1.000	63.55	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	13.24	-1.2490E-02	100.9	66.22	100.9	66.22	ACTIVE	0.000	-5.200	0.000
1.000	1.000	66.22	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	13.78	-1.2202E-02	104.8	68.89	104.8	68.89	ACTIVE	0.000	-5.400	0.000
1.000	1.000	68.89	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	14.31	-1.1915E-02	108.7	71.56	108.7	71.56	ACTIVE	0.000	-5.600	0.000
1.000	1.000	71.56	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	14.85	-1.1629E-02	112.6	74.23	112.6	74.23	ACTIVE	0.000	-5.800	0.000
1.000	1.000	74.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	15.45	-1.1345E-02	115.3	76.12	115.3	76.12	ACTIVE	0.000	-6.000	1.127
1.000	1.000	77.25	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	16.11	-1.1063E-02	117.2	77.42	117.2	77.42	ACTIVE	0.000	-6.200	3.114
1.000	1.000	80.53	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	16.76	-1.0782E-02	119.1	78.72	119.1	78.72	ACTIVE	0.000	-6.400	5.101
1.000	1.000	83.82	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	17.42	-1.0503E-02	121.0	80.01	121.0	80.01	ACTIVE	0.000	-6.600	7.089
1.000	1.000	87.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	18.08	-1.0225E-02	122.8	81.31	122.8	81.31	ACTIVE	0.000	-6.800	9.076
1.000	1.000	90.39	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	18.73	-9.9500E-03	124.7	82.61	124.7	82.61	ACTIVE	0.000	-7.000	11.06
1.000	1.000	93.67	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	19.39	-9.6767E-03	126.6	83.90	126.6	83.90	ACTIVE	0.000	-7.200	13.05
1.000	1.000	96.96	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	20.05	-9.4055E-03	128.5	85.20	128.5	85.20	ACTIVE	0.000	-7.400	15.04
1.000	1.000	100.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	20.70	-9.1364E-03	130.4	86.50	130.4	86.50	ACTIVE	0.000	-7.600	17.03
1.000	1.000	103.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	21.36	-8.8695E-03	132.2	87.79	132.2	87.79	ACTIVE	0.000	-7.800	19.01
1.000	1.000	106.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	22.02	-8.6050E-03	134.1	89.08	134.1	89.08	ACTIVE	0.000	-8.000	21.00
1.000	1.000	110.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.67	-8.3428E-03	136.0	90.38	136.0	90.38	ACTIVE	0.000	-8.200	22.99
1.000	1.000	113.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	23.33	-8.0831E-03	137.9	91.67	137.9	91.67	ACTIVE	0.000	-8.400	24.97
1.000	1.000	116.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.98	-7.8259E-03	139.7	92.96	139.7	92.96	ACTIVE	0.000	-8.600	26.96
1.000	1.000	119.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	24.64	-7.5712E-03	141.6	94.25	141.6	94.25	ACTIVE	0.000	-8.800	28.95
1.000	1.000	123.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	25.32	-7.3191E-03	143.7	95.67	143.7	95.67	ACTIVE	0.000	-9.000	30.94
1.000	1.000	126.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	26.00	-7.0697E-03	145.7	97.10	145.7	97.10	ACTIVE	0.000	-9.200	32.92
1.000	1.000	130.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	26.69	-6.8230E-03	147.8	98.52	147.8	98.52	ACTIVE	0.000	-9.400	34.91
1.000	1.000	133.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	27.37	-6.5792E-03	149.9	99.94	149.9	99.94	ACTIVE	0.000	-9.600	36.90
1.000	1.000	136.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	28.05	-6.3382E-03	151.9	101.4	151.9	101.4	ACTIVE	0.000	-9.800	38.89
1.000	1.000	140.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	28.73	-6.1003E-03	154.0	102.8	154.0	102.8	ACTIVE	0.000	-10.00	40.87
1.000	1.000	143.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	29.41	-5.8653E-03	156.0	104.2	156.0	104.2	ACTIVE	0.000	-10.20	42.86
1.000	1.000	147.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	30.09	-5.6336E-03	158.1	105.6	158.1	105.6	ACTIVE	0.000	-10.40	44.85
1.000	1.000	150.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.76	-5.4050E-03	160.1	107.0	160.1	107.0	ACTIVE	0.000	-10.60	46.83
1.000	1.000	153.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.44	-5.1798E-03	162.1	108.4	162.1	108.4	ACTIVE	0.000	-10.80	48.82
1.000	1.000	157.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	32.12	-4.9581E-03	164.1	109.8	164.1	109.8	ACTIVE	0.000	-11.00	50.81
1.000	1.000	160.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	32.79	-4.7400E-03	166.2	111.2	166.2	111.2	ACTIVE	0.000	-11.20	52.80
1.000	1.000	164.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	33.47	-4.5256E-03	168.2	112.6	168.2	112.6	ACTIVE	0.000	-11.40	54.78
1.000	1.000	167.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	34.14	-4.3150E-03	170.2	113.9	170.2	113.9	ACTIVE	0.000	-11.60	56.77
1.000	1.000	170.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	34.82	-4.1085E-03	172.2	115.3	172.2	115.3	ACTIVE	0.000	-11.80	58.76
1.000	1.000	174.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	35.49	-3.9061E-03	174.2	116.7	174.2	116.7	ACTIVE	0.000	-12.00	60.75
1.000	1.000	177.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.20	-3.7082E-03	176.3	83.29	176.3	88.20	ACTIVE	0.000	-12.20	62.73
1.000	1.000	146.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.86	-3.5147E-03	178.6	84.57	178.6	89.21	ACTIVE	0.000	-12.40	64.72
1.000	1.000	149.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	30.51	-3.3260E-03	180.9	85.85	180.9	90.22	ACTIVE	0.000	-12.60	66.71
1.000	1.000	152.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	31.16	-3.1422E-03	183.2	87.12	183.2	91.23	ACTIVE	0.000	-12.80	68.70
1.000	1.000	155.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	31.82	-2.9634E-03	185.5	88.40	185.5	92.24	ACTIVE	0.000	-13.00	70.68
1.000	1.000	159.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	32.47	-2.7897E-03	187.8	89.67	187.8	93.25	ACTIVE	0.000	-13.20	72.67
1.000	1.000	162.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	33.12	-2.6213E-03	190.1	90.94	190.1	94.27	ACTIVE	0.000	-13.40	74.66
1.000	1.000	165.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	33.77	-2.4584E-03	192.4	92.21	192.4	95.28	ACTIVE	0.000	-13.60	76.64
1.000	1.000	168.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	34.42	-2.3009E-03	194.6	93.48	194.6	96.29	ACTIVE	0.000	-13.80	78.63
1.000	1.000	172.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	35.07	-2.1489E-03	196.9	94.75	196.9	97.30	ACTIVE	0.000	-14.00	80.62
1.000	1.000	175.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	22.21	-2.0027E-03	199.3	28.44	199.3	98.40	ACTIVE	0.000	-14.20	82.61
1.000	1.000	111.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	22.87	-1.8621E-03	202.0	29.76	202.0	99.61	ACTIVE	0.000	-14.40	84.59
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	23.53	-1.7274E-03	204.7	31.09	204.7	100.8	ACTIVE	0.000	-14.60	86.58
1.000	1.000	117.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	24.20	-1.5985E-03	207.3	32.41	207.3	102.0	UL-RL 1.2392E+05		-14.80	88.57
1.000	1.000	121.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.86	-1.4754E-03	210.0	33.73	210.0	103.3	UL-RL 1.2392E+05		-15.00	90.56
1.000	1.000	124.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	25.52	-1.3580E-03	212.6	35.05	212.6	104.5	UL-RL 1.2392E+05		-15.20	92.54
1.000	1.000	127.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	26.18	-1.2464E-03	215.3	36.37	215.3	105.7	UL-RL 1.2392E+05		-15.40	94.53
1.000	1.000	130.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.84	-1.1404E-03	218.0	37.68	218.0	106.9	UL-RL 1.2392E+05		-15.60	96.52
1.000	1.000	134.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.50	-1.0399E-03	220.6	39.00	220.6	108.1	UL-RL 1.2392E+05		-15.80	98.50
1.000	1.000	137.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	28.16	-9.4483E-04	223.3	40.31	223.3	109.3	UL-RL 1.2392E+05		-16.00	100.5
1.000	1.000	140.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.82	-8.5501E-04	225.9	41.63	225.9	110.6	UL-RL 1.2392E+05		-16.20	102.5
1.000	1.000	144.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.48	-7.7027E-04	228.5	42.94	228.5	111.8	UL-RL 1.2392E+05		-16.40	104.5
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	30.14	-6.9042E-04	231.2	44.25	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	150.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.78	-6.1527E-04	233.6	45.47	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	153.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.67	-5.4459E-04	236.1	47.94	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	158.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.96	-4.7815E-04	238.6	57.39	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	169.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	36.15	-4.1569E-04	241.0	66.35	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	180.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.25	-3.5695E-04	243.5	74.85	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	191.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.26	-3.0165E-04	245.9	82.93	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	201.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	42.19	-2.4953E-04	248.4	90.61	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	211.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	44.06	-2.0029E-04	250.9	97.93	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	220.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.85	-1.5366E-04	253.3	104.9	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	229.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.59	-1.0936E-04	255.8	111.6	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	238.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.28	-6.7114E-05	258.2	118.1	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	246.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.75	-2.6656E-05	260.7	123.5	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	253.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.96	1.2266E-05	263.2	127.5	263.2	130.3	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	259.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	53.15	4.9894E-05	265.6	131.5	265.6	132.5	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	265.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	54.16	8.6453E-05	268.1	134.5	268.1	135.1	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	270.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	55.12	1.2215E-04	270.6	137.3	270.6	137.7	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	275.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	56.07	1.5718E-04	273.0	140.1	273.0	140.3	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	280.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	57.02	1.9170E-04	275.5	142.9	275.5	142.9	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	285.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.95	2.2587E-04	278.0	145.6	278.0	145.6	V-C	4.1306E+04	-20.40	144.2
1.000	1.000	289.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.88	2.5980E-04	280.4	148.2	280.4	148.2	V-C	4.1306E+04	-20.60	146.2
1.000	1.000	294.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.80	2.9360E-04	282.9	150.8	282.9	150.8	V-C	4.1306E+04	-20.80	148.2
1.000	1.000	299.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.72	3.2733E-04	285.4	153.4	285.4	153.4	V-C	4.1306E+04	-21.00	150.2
1.000	1.000	303.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.82	3.6104E-04	287.8	156.1	287.8	156.1	V-C	4.1306E+04	-21.20	152.2
1.000	1.000	308.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						


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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                    |
|                                                                                               ParatiePlus                                                    |
|                                                                                               Exe Time :28 January 2022   15:34:59                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

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O_R                                     :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 1.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	1.234	1.4237E-02	0.000	6.171	0.000	6.171	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	6.171	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	3.043	1.3944E-02	3.800	15.21	3.800	15.21	PASSIVE	0.000	-4.200	0.000	
1.000	1.000	15.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.852	1.3652E-02	7.600	24.26	7.600	24.26	PASSIVE	0.000	-4.400	0.000	
1.000	1.000	24.26	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.661	1.3360E-02	11.40	33.30	11.40	33.30	PASSIVE	0.000	-4.600	0.000	
1.000	1.000	33.30	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.469	1.3069E-02	15.20	42.35	15.20	42.35	PASSIVE	0.000	-4.800	0.000	
1.000	1.000	42.35	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.28	1.2779E-02	19.00	51.39	19.00	51.39	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	51.39	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.09	1.2490E-02	22.80	60.43	22.80	60.43	PASSIVE	0.000	-5.200	0.000	
1.000	1.000	60.43	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.90	1.2202E-02	26.60	69.48	26.60	69.48	PASSIVE	0.000	-5.400	0.000	
1.000	1.000	69.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.70	1.1915E-02	30.40	78.52	30.40	78.52	PASSIVE	0.000	-5.600	0.000
1.000	1.000	78.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	17.51	1.1629E-02	34.20	87.57	34.20	87.57	PASSIVE	0.000	-5.800	0.000
1.000	1.000	87.57	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	19.32	1.1345E-02	38.00	96.61	38.00	96.61	PASSIVE	0.000	-6.000	0.000
1.000	1.000	96.61	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	20.80	1.1063E-02	40.59	102.8	40.59	102.8	PASSIVE	0.000	-6.200	1.211
1.000	1.000	104.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.31	1.0782E-02	42.38	103.3	42.38	103.3	V-C	7167.	-6.400	3.223
1.000	1.000	106.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	21.48	1.0503E-02	44.16	102.2	44.16	102.2	V-C	7167.	-6.600	5.236
1.000	1.000	107.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	21.66	1.0225E-02	45.95	101.1	45.95	101.1	V-C	7167.	-6.800	7.249
1.000	1.000	108.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	21.84	9.9500E-03	47.74	99.94	47.74	99.94	V-C	7167.	-7.000	9.261
1.000	1.000	109.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	22.02	9.6767E-03	49.53	98.84	49.53	98.84	V-C	7167.	-7.200	11.27
1.000	1.000	110.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	22.21	9.4055E-03	51.31	97.75	51.31	97.75	V-C	7167.	-7.400	13.29
1.000	1.000	111.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	22.40	9.1364E-03	53.10	96.68	53.10	96.68	V-C	7167.	-7.600	15.30
1.000	1.000	112.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	22.59	8.8695E-03	54.89	95.62	54.89	95.62	V-C	7167.	-7.800	17.31
1.000	1.000	112.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	22.78	8.6050E-03	56.68	94.58	56.68	94.58	V-C	7167.	-8.000	19.32
1.000	1.000	113.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.98	8.3428E-03	58.46	93.55	58.46	93.55	V-C	7167.	-8.200	21.34
1.000	1.000	114.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	23.18	8.0831E-03	60.25	92.54	60.25	92.54	V-C	7167.	-8.400	23.35
1.000	1.000	115.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.38	7.8259E-03	62.04	91.55	62.04	91.55	V-C	7167.	-8.600	25.36
1.000	1.000	116.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	23.59	7.5712E-03	63.82	90.57	63.82	90.57	V-C	7167.	-8.800	27.38
1.000	1.000	117.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	23.80	7.3191E-03	65.61	89.62	65.61	89.62	V-C	7167.	-9.000	29.39
1.000	1.000	119.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	24.02	7.0697E-03	67.40	88.68	67.40	88.68	V-C	7167.	-9.200	31.40
1.000	1.000	120.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	24.23	6.8230E-03	69.19	87.76	69.19	87.76	V-C	7167.	-9.400	33.41
1.000	1.000	121.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	24.46	6.5792E-03	70.97	86.86	70.97	86.86	V-C	7167.	-9.600	35.43
1.000	1.000	122.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	24.68	6.3382E-03	72.76	85.98	72.76	85.98	V-C	7167.	-9.800	37.44
1.000	1.000	123.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	24.91	6.1003E-03	74.55	85.12	74.55	85.12	V-C	7167.	-10.000	39.45
1.000	1.000	124.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	25.15	5.8653E-03	76.34	84.28	76.34	84.28	V-C	7167.	-10.200	41.46
1.000	1.000	125.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	25.39	5.6336E-03	78.12	83.47	78.12	83.47	V-C	7167.	-10.400	43.48
1.000	1.000	126.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	25.63	5.4050E-03	79.91	82.68	79.91	82.68	V-C	7167.	-10.600	45.49
1.000	1.000	128.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	25.88	5.1798E-03	81.70	81.91	81.70	81.91	V-C	7167.	-10.800	47.50
1.000	1.000	129.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	26.14	4.9581E-03	83.48	81.17	83.48	81.17	V-C	7167.	-11.000	49.52
1.000	1.000	130.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	26.40	4.7400E-03	85.27	80.45	85.27	80.45	V-C	7167.	-11.200	51.53
1.000	1.000	132.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	26.66	4.5256E-03	87.06	79.76	87.06	79.76	V-C	7167.	-11.400	53.54
1.000	1.000	133.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	26.93	4.3150E-03	88.85	79.10	88.85	79.10	V-C	7167.	-11.600	55.55
1.000	1.000	134.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	27.21	4.1085E-03	90.63	78.46	90.63	78.46	V-C 7167.	-11.80	57.57	
1.000	1.000	136.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	27.49	3.9061E-03	92.42	77.86	92.42	77.86	V-C 7167.	-12.00	59.58	
1.000	1.000	137.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	40.03	3.7082E-03	94.33	138.5	94.33	138.5	V-C 2.3669E+04	-12.20	61.59	
1.000	1.000	200.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.71	3.5147E-03	96.42	135.0	96.42	135.0	V-C 2.3669E+04	-12.40	63.60	
1.000	1.000	198.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	39.42	3.3260E-03	98.50	131.5	98.50	131.5	V-C 2.3669E+04	-12.60	65.62	
1.000	1.000	197.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	39.15	3.1422E-03	100.6	128.1	100.6	128.1	V-C 2.3669E+04	-12.80	67.63	
1.000	1.000	195.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	38.91	2.9634E-03	102.7	124.9	102.7	124.9	V-C 2.3669E+04	-13.00	69.64	
1.000	1.000	194.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.69	2.7897E-03	104.8	121.8	104.8	121.8	V-C 2.3669E+04	-13.20	71.65	
1.000	1.000	193.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	38.49	2.6213E-03	106.9	118.8	106.9	118.8	V-C 2.3669E+04	-13.40	73.67	
1.000	1.000	192.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	38.33	2.4584E-03	108.9	115.9	108.9	115.9	V-C 2.3669E+04	-13.60	75.68	
1.000	1.000	191.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.18	2.3009E-03	111.0	113.2	111.0	113.2	V-C 2.3669E+04	-13.80	77.69	
1.000	1.000	190.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	38.07	2.1489E-03	113.1	110.6	113.1	110.6	V-C 2.3669E+04	-14.00	79.71	
1.000	1.000	190.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	40.94	2.0027E-03	115.4	123.0	115.4	123.0	V-C 3.1023E+04	-14.20	81.72	
1.000	1.000	204.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	40.71	1.8621E-03	117.8	119.8	117.8	119.8	V-C 3.1023E+04	-14.40	83.73	
1.000	1.000	203.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	40.51	1.7274E-03	120.3	116.8	120.3	116.8	V-C 3.1023E+04	-14.60	85.74	
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	40.36	1.5985E-03	122.8	114.0	122.8	114.0	UL-RL 9.3069E+04	-14.80	87.76	
1.000	1.000	201.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.24	1.4754E-03	125.3	111.4	125.3	111.4	UL-RL 9.3069E+04	-15.00	89.77	
1.000	1.000	201.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	40.15	1.3580E-03	127.8	109.0	127.8	109.0	UL-RL 9.3069E+04	-15.20	91.78	
1.000	1.000	200.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	40.10	1.2464E-03	130.3	106.7	130.3	106.7	UL-RL 9.3069E+04	-15.40	93.79	
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	40.09	1.1404E-03	132.8	104.6	132.8	104.6	UL-RL 9.3069E+04	-15.60	95.81	
1.000	1.000	200.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	40.11	1.0399E-03	135.3	102.7	135.3	102.7	UL-RL 9.3069E+04	-15.80	97.82	
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	40.16	9.4483E-04	137.7	101.0	137.7	101.0	UL-RL 9.3069E+04	-16.00	99.83	
1.000	1.000	200.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	40.25	8.5501E-04	140.2	99.39	140.2	99.39	UL-RL 9.3069E+04	-16.20	101.8	
1.000	1.000	201.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.36	7.7027E-04	142.7	97.96	142.7	97.97	UL-RL 9.3069E+04	-16.40	103.9	
1.000	1.000	201.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	40.51	6.9042E-04	145.2	96.69	145.2	96.70	UL-RL 9.3069E+04	-16.60	105.9	
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	40.69	6.1527E-04	147.7	95.57	147.7	95.58	UL-RL 9.3069E+04	-16.80	107.9	
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	40.90	5.4459E-04	150.2	94.58	150.2	94.59	UL-RL 9.3069E+04	-17.00	109.9	
1.000	1.000	204.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	41.13	4.7815E-04	152.7	93.73	152.7	93.74	UL-RL 9.3069E+04	-17.20	111.9	
1.000	1.000	205.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	41.38	4.1569E-04	155.2	92.99	155.2	93.01	UL-RL 9.3069E+04	-17.40	113.9	
1.000	1.000	206.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	41.66	3.5695E-04	157.6	92.38	157.6	92.39	UL-RL 9.3069E+04	-17.60	115.9	
1.000	1.000	208.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	41.96	3.0165E-04	160.1	91.87	160.1	91.89	UL-RL 9.3069E+04	-17.80	117.9	

1.000	1.000	209.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.28	2.4953E-04	162.6	91.46	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	211.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.62	2.0029E-04	165.1	91.14	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	213.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.70	1.5366E-04	167.6	89.50	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.61	1.0936E-04	170.1	87.04	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	213.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.55	6.7114E-05	172.6	84.73	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	212.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.52	2.6656E-05	175.1	82.57	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.51	-1.2266E-05	177.5	80.52	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.52	-4.9894E-05	180.0	78.58	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.56	-8.6453E-05	182.5	76.71	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	212.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.60	-1.2215E-04	185.0	74.92	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	213.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.65	-1.5718E-04	187.5	73.18	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	213.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.71	-1.9170E-04	190.0	71.47	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	213.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.78	-2.2587E-04	192.5	69.80	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	213.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.85	-2.5980E-04	195.0	68.14	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	214.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	42.93	-2.9360E-04	197.4	66.50	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	214.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	43.00	-3.2733E-04	199.9	64.86	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	215.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.54	-3.6104E-04	202.4	63.22	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	215.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.08037E-02	-1.08037E-02	2.48542E-11	2.16074E-03
2	0.23703	-0.23703	-2.16074E-03	4.95659E-02
3	0.66799	-0.66799	-4.95659E-02	0.18316
4	1.3038	-1.3038	-0.18316	0.44393
5	2.1447	-2.1447	-0.44393	0.87287
6	3.1906	-3.1906	-0.87287	1.5110
7	4.4418	-4.4418	-1.5110	2.3993
8	5.8983	-5.8983	-2.3993	3.5790
9	7.5602	-7.5602	-3.5790	5.0911
10	9.4277	-9.4277	-5.0911	6.9766
11	11.501	-11.501	-6.9766	9.2767
12	13.780	-13.780	-9.2767	12.033
13	16.264	-16.264	-12.033	15.285
14	18.954	-18.954	-15.285	19.076
15	21.851	-21.851	-19.076	23.446

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   91
C U R R E N T   T I M E   I S   1.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.953	-24.953	-23.446	28.437
2	28.261	-28.261	-28.437	34.089
3	31.775	-31.775	-34.089	40.444
4	35.496	-35.496	-40.444	47.543
5	39.422	-39.422	-47.543	55.428
6	48.228	-48.228	-55.428	65.073
7	55.759	-55.759	-65.073	76.225
8	62.015	-62.015	-76.225	88.628
9	66.997	-66.997	-88.628	102.03
10	70.703	-70.703	-102.03	116.17
11	73.135	-73.135	-116.17	130.80
12	74.292	-74.292	-130.80	145.65
13	74.174	-74.174	-145.65	160.49
14	72.781	-72.781	-160.49	175.04
15	70.113	-70.113	-175.04	189.07
16	66.240	-66.240	-189.07	202.32
17	61.550	-61.550	-202.32	214.63
18	57.004	-57.004	-214.63	226.03
19	52.941	-52.941	-226.03	236.61
20	49.357	-49.357	-236.61	246.49
21	46.251	-46.251	-246.49	255.74
22	43.619	-43.619	-255.74	264.46
23	41.458	-41.458	-264.46	272.75
24	39.766	-39.766	-272.75	280.70
25	38.540	-38.540	-280.70	288.41
26	37.776	-37.776	-288.41	295.97
27	37.470	-37.470	-295.97	303.46
28	37.620	-37.620	-303.46	310.99
29	38.222	-38.222	-310.99	318.63
30	39.272	-39.272	-318.63	326.48
31	40.793	-40.793	-326.48	334.64
32	42.782	-42.782	-334.64	343.20
33	45.234	-45.234	-343.20	352.25
34	48.145	-48.145	-352.25	361.88
35	51.510	-51.510	-361.88	372.18
36	55.323	-55.323	-372.18	383.24
37	59.581	-59.581	-383.24	395.16
38	64.277	-64.277	-395.16	408.01
39	69.407	-69.407	-408.01	421.89
40	74.965	-74.965	-421.89	436.89
41	80.945	-80.945	-436.89	453.08
42	87.342	-87.342	-453.08	470.55
43	94.151	-94.151	-470.55	489.38
44	101.36	-101.36	-489.38	509.65
45	108.98	-108.98	-509.65	531.44
46	116.98	-116.98	-531.44	554.84
47	106.16	-106.16	-554.84	576.07
48	96.302	-96.302	-576.07	595.33
49	87.392	-87.392	-595.33	612.81
50	79.402	-79.402	-612.81	628.69
51	72.309	-72.309	-628.69	643.15
52	66.088	-66.088	-643.15	656.37
53	60.714	-60.714	-656.37	668.51
54	56.160	-56.160	-668.51	679.74
55	52.400	-52.400	-679.74	690.22
56	49.408	-49.408	-690.22	700.11
57	30.680	-30.680	-700.11	706.24
58	12.843	-12.843	-706.24	708.81
59	-4.1379	4.1379	-708.81	707.98
60	-20.301	20.301	-707.98	703.92
61	-35.681	35.681	-703.92	696.79
62	-50.315	50.315	-696.79	686.72
63	-64.239	64.239	-686.72	673.88
64	-77.487	77.487	-673.88	658.38
65	-90.095	90.095	-658.38	640.36
66	-102.10	102.10	-640.36	619.94
67	-113.52	113.52	-619.94	597.23
68	-124.41	124.41	-597.23	572.35
69	-134.78	134.78	-572.35	545.40
70	-144.69	144.69	-545.40	516.46

71	-153.92	153.92	-516.46	485.67
72	-161.08	161.08	-485.67	453.46
73	-166.32	166.32	-453.46	420.19
74	-169.73	169.73	-420.19	386.25
75	-171.44	171.44	-386.25	351.96
76	-171.53	171.53	-351.96	317.65
77	-170.10	170.10	-317.65	283.63
78	-166.94	166.94	-283.63	250.25
79	-161.95	161.95	-250.25	217.85
80	-155.22	155.22	-217.85	186.81
81	-146.98	146.98	-186.81	157.41
82	-137.54	137.54	-157.41	129.91
83	-126.91	126.91	-129.91	104.52
84	-115.31	115.31	-104.52	81.463
85	-102.79	102.79	-81.463	60.904
86	-89.377	89.377	-60.904	43.028
87	-75.073	75.073	-43.028	28.013
88	-59.901	59.901	-28.013	16.033
89	-43.877	43.877	-16.033	7.2574
90	-27.004	27.004	-7.2574	1.8566
91	-9.2836	9.2836	-1.8566	-2.05098E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1600E+07  RIMNOR=0.3123E+08
            RENORM= 12.07     REMNOR=0.1185E-16  RATIO =0.2747E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 171.5     RMMAX = 708.8
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1600E+07  RDR    =0.3123E+08
            RATIO=0.2747E-02  RATIO= 0.000
            MAX UN=0.1201E-08  IEQ=    20 NODE    10 DOF   2   X-ROT. F
            MIN UN=-.5312     IEQ=   167 NODE   84 DOF   1   Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1600E+07  RIMNOR=0.3123E+08
            RENORM=0.4272E-14  REMNOR=0.1385E-16  RATIO =0.5167E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.5     RMMAX = 708.8
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1600E+07  RDR    =0.3123E+08
            RATIO=0.5167E-10  RATIO= 0.000
            MAX UN=0.2386E-07  IEQ=    33 NODE    17 DOF   1   Y-DISPL.F
            MIN UN=-.2401E-07  IEQ=    31 NODE    16 DOF   1   Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
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New Project
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000) SUBINCREMENT 0001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F 02	X-ROT. F 04
1	2.0128465E-02	-1.4800260E-03
2	1.9832460E-02	-1.4800260E-03
3	1.9536455E-02	-1.4800242E-03
4	1.9240451E-02	-1.4800159E-03
5	1.8944449E-02	-1.4799930E-03
6	1.8648455E-02	-1.4799448E-03
7	1.8352474E-02	-1.4798577E-03
8	1.8056516E-02	-1.4797151E-03
9	1.7760593E-02	-1.4794974E-03
10	1.7464723E-02	-1.4791823E-03
11	1.7168928E-02	-1.4787443E-03
12	1.6873236E-02	-1.4781553E-03
13	1.6577678E-02	-1.4773840E-03
14	1.6282296E-02	-1.4763964E-03
15	1.5987137E-02	-1.4751555E-03
16	1.5692254E-02	-1.4736212E-03
17	1.5397633E-02	-1.4725549E-03
18	1.5103246E-02	-1.4712709E-03
19	1.4809141E-02	-1.4697414E-03
20	1.4515368E-02	-1.4679370E-03
21	1.4221986E-02	-1.4658267E-03
22	1.3929061E-02	-1.4633581E-03
23	1.3636672E-02	-1.4604637E-03
24	1.3344910E-02	-1.4570865E-03
25	1.3053874E-02	-1.4531799E-03
26	1.2763675E-02	-1.4487080E-03
27	1.2474430E-02	-1.4436452E-03
28	1.2186258E-02	-1.4379763E-03
29	1.1899282E-02	-1.4316968E-03
30	1.1613621E-02	-1.4248125E-03
31	1.1329396E-02	-1.4173398E-03
32	1.1046722E-02	-1.4093053E-03
33	1.0765709E-02	-1.4007440E-03
34	1.0486457E-02	-1.3916933E-03
35	1.0209063E-02	-1.3821886E-03
36	9.9336114E-03	-1.3722609E-03
37	9.6601851E-03	-1.3619375E-03
38	9.3888612E-03	-1.3512419E-03
39	9.1197119E-03	-1.3401935E-03
40	8.8528076E-03	-1.3288083E-03
41	8.5882116E-03	-1.3170979E-03
42	8.3259895E-03	-1.3050706E-03
43	8.0662042E-03	-1.2927306E-03
44	7.8089181E-03	-1.2800787E-03
45	7.5541950E-03	-1.2671117E-03
46	7.3020961E-03	-1.2538230E-03
47	7.0526880E-03	-1.2402020E-03
48	6.8060384E-03	-1.2262346E-03
49	6.5622184E-03	-1.2119028E-03
50	6.3213042E-03	-1.1971853E-03
51	6.0833730E-03	-1.1820565E-03
52	5.8485156E-03	-1.1664880E-03
53	5.6168140E-03	-1.1504469E-03
54	5.3883707E-03	-1.1338975E-03
55	5.1632915E-03	-1.1168005E-03
56	4.9416899E-03	-1.0991130E-03
57	4.7236887E-03	-1.0807887E-03
58	4.5094202E-03	-1.0617782E-03
59	4.2990267E-03	-1.0420286E-03
60	4.0926618E-03	-1.0214837E-03
61	3.8904902E-03	-1.0000842E-03
62	3.6926892E-03	-9.7776777E-04
63	3.4994435E-03	-9.5454605E-04
64	3.3109256E-03	-9.3050274E-04
65	3.1272921E-03	-9.0571378E-04
66	2.9486852E-03	-8.8024758E-04
67	2.7752341E-03	-8.5416523E-04
68	2.6070566E-03	-8.2752069E-04
69	2.4442602E-03	-8.0036100E-04
70	2.2869438E-03	-7.7272647E-04
71	2.1351990E-03	-7.4465091E-04
72	1.9891110E-03	-7.1616185E-04
73	1.8487559E-03	-6.8734777E-04
74	1.7141837E-03	-6.5835758E-04

75 1.5854152E-03 -6.2933317E-04
76 1.4624437E-03 -6.0040968E-04
77 1.3452360E-03 -5.7171578E-04
78 1.2337339E-03 -5.4337400E-04
79 1.1278551E-03 -5.1550098E-04
80 1.0274948E-03 -4.8820778E-04
81 9.3252633E-04 -4.6160017E-04
82 8.4280235E-04 -4.3577890E-04
83 7.5815595E-04 -4.1083994E-04
84 6.7840145E-04 -3.8687480E-04
85 6.0333529E-04 -3.6397074E-04
86 5.3273686E-04 -3.4221106E-04
87 4.6636933E-04 -3.2167434E-04
88 4.0398110E-04 -3.0242795E-04
89 3.4530874E-04 -2.8452284E-04
90 2.9007749E-04 -2.6799383E-04
91 2.3801516E-04 -2.5286368E-04
92 1.8883832E-04 -2.3913901E-04
93 1.4226622E-04 -2.2681441E-04
94 9.8020468E-05 -2.1587118E-04
95 5.5827877E-05 -2.0627601E-04
96 1.5423391E-05 -1.9798093E-04
97 -2.3447082E-05 -1.9092464E-04
98 -6.1024223E-05 -1.8503471E-04
99 -9.7533240E-05 -1.8022889E-04
100 -1.3318198E-04 -1.7641611E-04
101 -1.6815930E-04 -1.7349751E-04
102 -2.0263351E-04 -1.7136680E-04
103 -2.3675267E-04 -1.6991029E-04
104 -2.7063624E-04 -1.6900728E-04
105 -3.0438395E-04 -1.6852979E-04
106 -3.3806753E-04 -1.6834293E-04
107 -3.7172936E-04 -1.6830487E-04

New Project

S T R E S S R E S U L T S F O R G R O U P N O. 1

0_L :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107

C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-2.0128E-02	0.000	0.000	0.4062	4.021	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2408	-1.9832E-02	3.800	1.204	4.252	6.027	UL-RL	1.4407E+04	-0.2000	0.000	
1.000	1.000	2.218	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.4436	-1.9536E-02	7.600	2.218	8.101	8.027	UL-RL	1.4407E+04	-0.4000	0.000	
1.000	1.000	2.218	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.6463	-1.9240E-02	11.40	3.232	11.95	10.02	UL-RL	1.4407E+04	-0.6000	0.000	
1.000	1.000	3.232	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.8490	-1.8944E-02	15.20	4.245	15.81	12.01	UL-RL	1.4407E+04	-0.8000	0.000	
1.000	1.000	4.245	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.052	-1.8648E-02	19.00	5.258	19.66	13.99	UL-RL	1.4407E+04	-1.000	0.000	
1.000	1.000	5.258	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.254	-1.8352E-02	22.80	6.271	23.52	15.96	UL-RL	1.4407E+04	-1.200	0.000	
1.000	1.000	6.271	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.457	-1.8057E-02	26.60	7.284	27.38	17.93	UL-RL	1.4407E+04	-1.400	0.000	
1.000	1.000	7.284	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	1.660	-1.7761E-02	30.40	8.298	31.24	19.89	UL-RL	1.4407E+04	-1.600	0.000	
1.000	1.000	8.298	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	1.862	-1.7465E-02	34.20	9.311	35.10	21.85	UL-RL	1.4407E+04	-1.800	0.000	
1.000	1.000	9.311	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.065	-1.7169E-02	38.00	10.32	38.97	23.80	UL-RL	1.4407E+04	-2.000	0.000	
1.000	1.000	10.32	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.267	-1.6873E-02	41.80	11.34	42.83	25.75	UL-RL	1.4407E+04	-2.200	0.000	
1.000	1.000	11.34	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	2.470	-1.6578E-02	45.60	12.35	46.70	27.69	UL-RL	1.4407E+04	-2.400	0.000	
1.000	1.000	12.35	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	2.673	-1.6282E-02	49.40	13.36	50.57	29.63	UL-RL	1.4407E+04	-2.600	0.000	
1.000	1.000	13.36	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	2.875	-1.5987E-02	53.20	14.38	54.44	31.56	UL-RL	1.4407E+04	-2.800	0.000	
1.000	1.000	14.38	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	3.078	-1.5692E-02	57.00	15.39	58.31	33.48	UL-RL	1.4407E+04	-3.000	0.000	
1.000	1.000	15.39	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	3.281	-1.5398E-02	60.80	16.40	62.18	35.40	UL-RL	1.4407E+04	-3.200	0.000	
1.000	1.000	16.40	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.483	-1.5103E-02	64.60	17.42	66.06	37.32	UL-RL	1.4407E+04	-3.400	0.000	
1.000	1.000	17.42	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.686	-1.4809E-02	68.40	18.43	69.93	39.23	UL-RL	1.4407E+04	-3.600	0.000	
1.000	1.000	18.43	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.889	-1.4515E-02	72.20	19.44	73.80	41.14	UL-RL	1.4407E+04	-3.800	0.000	
1.000	1.000	19.44	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	10.04	-1.4222E-02	76.00	50.18	77.68	50.20	UL-RL	2.6488E+04	-4.000	0.000	
1.000	1.000	50.18	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	10.57	-1.3929E-02	79.80	52.83	81.55	52.87	UL-RL	2.6488E+04	-4.200	0.000	

1.000	1.000	52.83	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	11.10	-1.3637E-02	83.60	55.48	85.43	55.54	UL-RL 2.6488E+04	-4.400	0.000
1.000	1.000	55.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	11.63	-1.3345E-02	87.40	58.14	89.30	58.21	UL-RL 2.6488E+04	-4.600	0.000
1.000	1.000	58.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	12.16	-1.3054E-02	91.20	60.79	93.18	60.88	UL-RL 2.6488E+04	-4.800	0.000
1.000	1.000	60.79	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	12.69	-1.2764E-02	95.00	63.44	97.05	63.55	UL-RL 2.6488E+04	-5.000	0.000
1.000	1.000	63.44	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	13.22	-1.2474E-02	98.80	66.10	100.9	66.22	UL-RL 2.6488E+04	-5.200	0.000
1.000	1.000	66.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	13.75	-1.2186E-02	102.6	68.75	104.8	68.89	UL-RL 2.6488E+04	-5.400	0.000
1.000	1.000	68.75	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	14.28	-1.1899E-02	106.4	71.40	108.7	71.56	UL-RL 2.6488E+04	-5.600	0.000
1.000	1.000	71.40	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	14.81	-1.1614E-02	110.2	74.06	112.6	74.23	UL-RL 2.6488E+04	-5.800	0.000
1.000	1.000	74.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.41	-1.1329E-02	112.9	75.93	115.3	76.12	UL-RL 2.6488E+04	-6.000	1.127
1.000	1.000	77.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.07	-1.1047E-02	114.7	77.22	117.2	77.42	UL-RL 2.6488E+04	-6.200	3.114
1.000	1.000	80.33	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	16.72	-1.0766E-02	116.5	78.50	119.1	78.72	UL-RL 2.6488E+04	-6.400	5.101
1.000	1.000	83.60	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	17.37	-1.0486E-02	118.3	79.78	121.0	80.01	UL-RL 2.6488E+04	-6.600	7.089
1.000	1.000	86.87	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	18.03	-1.0209E-02	120.1	81.06	122.8	81.31	UL-RL 2.6488E+04	-6.800	9.076
1.000	1.000	90.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	18.68	-9.9336E-03	121.9	82.35	124.7	82.61	UL-RL 2.6488E+04	-7.000	11.06
1.000	1.000	93.41	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	19.34	-9.6602E-03	123.7	83.63	126.6	83.90	UL-RL 2.6488E+04	-7.200	13.05
1.000	1.000	96.68	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	19.99	-9.3889E-03	125.6	84.91	128.5	85.20	UL-RL 2.6488E+04	-7.400	15.04
1.000	1.000	99.94	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	20.64	-9.1197E-03	127.4	86.19	130.4	86.50	UL-RL 2.6488E+04	-7.600	17.03
1.000	1.000	103.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	21.30	-8.8528E-03	129.2	87.47	132.2	87.79	UL-RL 2.6488E+04	-7.800	19.01
1.000	1.000	106.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	21.95	-8.5882E-03	131.0	88.75	134.1	89.08	UL-RL 2.6488E+04	-8.000	21.00
1.000	1.000	109.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.60	-8.3260E-03	132.8	90.02	136.0	90.38	UL-RL 2.6488E+04	-8.200	22.99
1.000	1.000	113.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.26	-8.0662E-03	134.6	91.30	137.9	91.67	UL-RL 2.6488E+04	-8.400	24.97
1.000	1.000	116.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.91	-7.8089E-03	136.4	92.58	139.7	92.96	UL-RL 2.6488E+04	-8.600	26.96
1.000	1.000	119.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	24.56	-7.5542E-03	138.3	93.85	141.6	94.25	UL-RL 2.6488E+04	-8.800	28.95
1.000	1.000	122.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	25.23	-7.3021E-03	140.1	95.21	143.7	95.67	UL-RL 2.6488E+04	-9.000	30.94
1.000	1.000	126.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	25.90	-7.0527E-03	141.9	96.57	145.7	97.10	UL-RL 2.6488E+04	-9.200	32.92
1.000	1.000	129.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	26.57	-6.8060E-03	143.7	97.93	147.8	98.52	UL-RL 2.6488E+04	-9.400	34.91
1.000	1.000	132.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	27.24	-6.5622E-03	145.5	99.29	149.9	99.94	UL-RL 2.6488E+04	-9.600	36.90
1.000	1.000	136.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	27.91	-6.3213E-03	147.3	100.6	151.9	101.4	UL-RL 2.6488E+04	-9.800	38.89
1.000	1.000	139.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	28.57	-6.0834E-03	149.1	102.0	154.0	102.8	UL-RL 2.6488E+04	-10.00	40.87
1.000	1.000	142.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	29.24	-5.8485E-03	150.9	103.3	156.0	104.2	UL-RL 2.6488E+04	-10.20	42.86
1.000	1.000	146.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	29.91	-5.6168E-03	152.8	104.7	158.1	105.6	UL-RL	2.6488E+04	-10.40	44.85
1.000	1.000	149.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.57	-5.3884E-03	154.6	106.0	160.1	107.0	UL-RL	2.6488E+04	-10.60	46.83
1.000	1.000	152.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.24	-5.1633E-03	156.4	107.4	162.1	108.4	UL-RL	2.6488E+04	-10.80	48.82
1.000	1.000	156.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	31.90	-4.9417E-03	158.2	108.7	164.1	109.8	UL-RL	2.6488E+04	-11.00	50.81
1.000	1.000	159.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	32.57	-4.7237E-03	160.0	110.0	166.2	111.2	UL-RL	2.6488E+04	-11.20	52.80
1.000	1.000	162.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	33.23	-4.5094E-03	161.8	111.4	168.2	112.6	UL-RL	2.6488E+04	-11.40	54.78
1.000	1.000	166.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	33.90	-4.2990E-03	163.6	112.7	170.2	113.9	UL-RL	2.6488E+04	-11.60	56.77
1.000	1.000	169.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	34.56	-4.0927E-03	165.4	114.0	172.2	115.3	UL-RL	2.6488E+04	-11.80	58.76
1.000	1.000	172.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	35.22	-3.8905E-03	167.3	115.4	174.2	116.7	UL-RL	2.6488E+04	-12.00	60.75
1.000	1.000	176.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.14	-3.6927E-03	169.2	82.95	176.3	88.20	UL-RL	9.4545E+04	-12.20	62.73
1.000	1.000	145.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.78	-3.4994E-03	171.3	84.16	178.6	89.21	UL-RL	9.4545E+04	-12.40	64.72
1.000	1.000	148.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	30.42	-3.3109E-03	173.4	85.38	180.9	90.22	UL-RL	9.4545E+04	-12.60	66.71
1.000	1.000	152.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	31.06	-3.1273E-03	175.5	86.59	183.2	91.23	UL-RL	9.4545E+04	-12.80	68.70
1.000	1.000	155.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	31.70	-2.9487E-03	177.6	87.80	185.5	92.24	UL-RL	9.4545E+04	-13.00	70.68
1.000	1.000	158.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	32.34	-2.7752E-03	179.7	89.01	187.8	93.25	UL-RL	9.4545E+04	-13.20	72.67
1.000	1.000	161.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	32.98	-2.6071E-03	181.9	90.22	190.1	94.27	UL-RL	9.4545E+04	-13.40	74.66
1.000	1.000	164.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	33.61	-2.4443E-03	184.0	91.43	192.4	95.28	UL-RL	9.4545E+04	-13.60	76.64
1.000	1.000	168.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	34.25	-2.2869E-03	186.1	92.64	194.6	96.29	UL-RL	9.4545E+04	-13.80	78.63
1.000	1.000	171.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	34.89	-2.1352E-03	188.2	93.85	196.9	97.30	UL-RL	9.4545E+04	-14.00	80.62
1.000	1.000	174.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	22.10	-1.9891E-03	190.5	27.88	199.3	98.40	UL-RL	1.2392E+05	-14.20	82.61
1.000	1.000	110.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	22.75	-1.8488E-03	193.0	29.14	202.0	99.61	UL-RL	1.2392E+05	-14.40	84.59
1.000	1.000	113.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	23.40	-1.7142E-03	195.5	30.41	204.7	100.8	UL-RL	1.2392E+05	-14.60	86.58
1.000	1.000	117.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	24.05	-1.5854E-03	198.0	31.67	207.3	102.0	UL-RL	1.2392E+05	-14.80	88.57
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.70	-1.4624E-03	200.5	32.94	210.0	103.3	UL-RL	1.2392E+05	-15.00	90.56
1.000	1.000	123.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	25.35	-1.3452E-03	203.0	34.20	212.6	104.5	UL-RL	1.2392E+05	-15.20	92.54
1.000	1.000	126.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	26.00	-1.2337E-03	205.5	35.47	215.3	105.7	UL-RL	1.2392E+05	-15.40	94.53
1.000	1.000	130.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.65	-1.1279E-03	208.1	36.73	218.0	106.9	UL-RL	1.2392E+05	-15.60	96.52
1.000	1.000	133.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.30	-1.0275E-03	210.6	38.00	220.6	108.1	UL-RL	1.2392E+05	-15.80	98.50
1.000	1.000	136.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	27.95	-9.3253E-04	213.1	39.27	223.3	109.3	UL-RL	1.2392E+05	-16.00	100.5
1.000	1.000	139.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.60	-8.4280E-04	215.6	40.54	225.9	110.6	UL-RL	1.2392E+05	-16.20	102.5
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.25	-7.5816E-04	218.1	41.80	228.5	111.8	UL-RL	1.2392E+05	-16.40	104.5
1.000	1.000	146.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	29.91	-6.7840E-04	220.6	43.07	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	149.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.55	-6.0334E-04	223.1	44.30	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	152.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.44	-5.3274E-04	225.7	46.77	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	157.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.73	-4.6637E-04	228.2	56.22	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	168.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	35.92	-4.0398E-04	230.7	65.19	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	179.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.02	-3.4531E-04	233.2	73.70	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	190.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.03	-2.9008E-04	235.7	81.78	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	200.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	41.97	-2.3802E-04	238.2	89.46	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	209.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	43.83	-1.8884E-04	240.7	96.79	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	219.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.63	-1.4227E-04	243.2	103.8	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	228.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.37	-9.8020E-05	245.8	110.5	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	236.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.06	-5.5828E-05	248.3	117.0	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	245.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.53	-1.5423E-05	250.8	122.3	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	252.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.74	2.3447E-05	253.3	126.4	263.2	130.3	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	258.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	52.93	6.1024E-05	255.8	130.4	265.6	132.5	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	264.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	53.94	9.7533E-05	258.3	133.4	268.1	135.1	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	269.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	54.90	1.3318E-04	260.8	136.2	270.6	137.7	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	274.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	55.85	1.6816E-04	263.3	139.0	273.0	140.3	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	279.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	56.80	2.0263E-04	265.9	141.8	275.5	142.9	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	284.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.74	2.3675E-04	268.4	144.5	278.0	145.6	UL-RL	1.2392E+05	-20.40	144.2
1.000	1.000	288.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.66	2.7064E-04	270.9	147.1	280.4	148.2	UL-RL	1.2392E+05	-20.60	146.2
1.000	1.000	293.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.59	3.0438E-04	273.4	149.8	282.9	150.8	UL-RL	1.2392E+05	-20.80	148.2
1.000	1.000	297.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.51	3.3807E-04	275.9	152.4	285.4	153.4	UL-RL	1.2392E+05	-21.00	150.2
1.000	1.000	302.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.72	3.7173E-04	278.4	155.0	287.8	156.1	UL-RL	1.2392E+05	-21.20	152.2
1.000	1.000	307.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

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O_R :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT    TIME    IS        2.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
TOR	UFACTOR	Peq	Su_a	Su_p	Cohe_a	Cohe_p	LAYER		ZFO	QS	
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	1.170	1.4222E-02	0.000	5.849	0.000	6.171	UL-RL 2.1501E+04		-4.000	0.000	
1.000	1.000	5.849	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.978	1.3929E-02	3.800	14.89	3.800	15.21	UL-RL 2.1501E+04		-4.200	0.000	
1.000	1.000	14.89	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.787	1.3637E-02	7.600	23.93	7.600	24.26	UL-RL 2.1501E+04		-4.400	0.000	
1.000	1.000	23.93	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.595	1.3345E-02	11.40	32.97	11.40	33.30	UL-RL 2.1501E+04		-4.600	0.000	
1.000	1.000	32.97	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.403	1.3054E-02	15.20	42.02	15.20	42.35	UL-RL 2.1501E+04		-4.800	0.000	
1.000	1.000	42.02	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.21	1.2764E-02	19.00	51.06	19.00	51.39	UL-RL 2.1501E+04		-5.000	0.000	
1.000	1.000	51.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.02	1.2474E-02	22.80	60.10	22.80	60.43	UL-RL 2.1501E+04		-5.200	0.000	
1.000	1.000	60.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.83	1.2186E-02	26.60	69.14	26.60	69.48	UL-RL 2.1501E+04		-5.400	0.000	
1.000	1.000	69.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.64	1.1899E-02	30.40	78.18	30.40	78.52	UL-RL 2.1501E+04	-5.600	0.000
1.000	1.000	78.18	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	17.45	1.1614E-02	34.20	87.23	34.20	87.57	UL-RL 2.1501E+04	-5.800	0.000
1.000	1.000	87.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.25	1.1329E-02	38.00	96.27	38.00	96.61	UL-RL 2.1501E+04	-6.000	0.000
1.000	1.000	96.27	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.73	1.1047E-02	40.59	102.4	40.59	102.8	UL-RL 2.1501E+04	-6.200	1.211
1.000	1.000	103.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.24	1.0766E-02	42.38	103.0	42.38	103.3	UL-RL 2.1501E+04	-6.400	3.223
1.000	1.000	106.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	21.41	1.0486E-02	44.16	101.8	44.16	102.2	UL-RL 2.1501E+04	-6.600	5.236
1.000	1.000	107.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	21.59	1.0209E-02	45.95	100.7	45.95	101.1	UL-RL 2.1501E+04	-6.800	7.249
1.000	1.000	108.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	21.77	9.9336E-03	47.74	99.59	47.74	99.94	UL-RL 2.1501E+04	-7.000	9.261
1.000	1.000	108.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	21.95	9.6602E-03	49.53	98.49	49.53	98.84	UL-RL 2.1501E+04	-7.200	11.27
1.000	1.000	109.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.14	9.3889E-03	51.31	97.40	51.31	97.75	UL-RL 2.1501E+04	-7.400	13.29
1.000	1.000	110.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	22.32	9.1197E-03	53.10	96.32	53.10	96.68	UL-RL 2.1501E+04	-7.600	15.30
1.000	1.000	111.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	22.51	8.8528E-03	54.89	95.26	54.89	95.62	UL-RL 2.1501E+04	-7.800	17.31
1.000	1.000	112.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	22.71	8.5882E-03	56.68	94.22	56.68	94.58	UL-RL 2.1501E+04	-8.000	19.32
1.000	1.000	113.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.91	8.3260E-03	58.46	93.19	58.46	93.55	UL-RL 2.1501E+04	-8.200	21.34
1.000	1.000	114.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.11	8.0662E-03	60.25	92.18	60.25	92.54	UL-RL 2.1501E+04	-8.400	23.35
1.000	1.000	115.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.31	7.8089E-03	62.04	91.18	62.04	91.55	UL-RL 2.1501E+04	-8.600	25.36
1.000	1.000	116.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	23.52	7.5542E-03	63.82	90.21	63.82	90.57	UL-RL 2.1501E+04	-8.800	27.38
1.000	1.000	117.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	23.73	7.3021E-03	65.61	89.25	65.61	89.62	UL-RL 2.1501E+04	-9.000	29.39
1.000	1.000	118.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	23.94	7.0527E-03	67.40	88.31	67.40	88.68	UL-RL 2.1501E+04	-9.200	31.40
1.000	1.000	119.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	24.16	6.8060E-03	69.19	87.39	69.19	87.76	UL-RL 2.1501E+04	-9.400	33.41
1.000	1.000	120.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	24.38	6.5622E-03	70.97	86.49	70.97	86.86	UL-RL 2.1501E+04	-9.600	35.43
1.000	1.000	121.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	24.61	6.3213E-03	72.76	85.61	72.76	85.98	UL-RL 2.1501E+04	-9.800	37.44
1.000	1.000	123.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	24.84	6.0834E-03	74.55	84.76	74.55	85.12	UL-RL 2.1501E+04	-10.00	39.45
1.000	1.000	124.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	25.08	5.8485E-03	76.34	83.92	76.34	84.28	UL-RL 2.1501E+04	-10.20	41.46
1.000	1.000	125.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	25.32	5.6168E-03	78.12	83.11	78.12	83.47	UL-RL 2.1501E+04	-10.40	43.48
1.000	1.000	126.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	25.56	5.3884E-03	79.91	82.32	79.91	82.68	UL-RL 2.1501E+04	-10.60	45.49
1.000	1.000	127.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	25.81	5.1633E-03	81.70	81.55	81.70	81.91	UL-RL 2.1501E+04	-10.80	47.50
1.000	1.000	129.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	26.07	4.9417E-03	83.48	80.81	83.48	81.17	UL-RL 2.1501E+04	-11.00	49.52
1.000	1.000	130.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	26.33	4.7237E-03	85.27	80.10	85.27	80.45	UL-RL 2.1501E+04	-11.20	51.53
1.000	1.000	131.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	26.59	4.5094E-03	87.06	79.41	87.06	79.76	UL-RL 2.1501E+04	-11.40	53.54
1.000	1.000	133.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	26.86	4.2990E-03	88.85	78.75	88.85	79.10	UL-RL 2.1501E+04	-11.60	55.55
1.000	1.000	134.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	27.14	4.0927E-03	90.63	78.12	90.63	78.46	UL-RL	2.1501E+04	-11.80	57.57	
1.000	1.000	135.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	27.42	3.8905E-03	92.42	77.52	92.42	77.86	UL-RL	2.1501E+04	-12.00	59.58	
1.000	1.000	137.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	39.81	3.6927E-03	94.33	137.4	94.33	138.5	UL-RL	7.1008E+04	-12.20	61.59	
1.000	1.000	199.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	39.50	3.4994E-03	96.42	133.9	96.42	135.0	UL-RL	7.1008E+04	-12.40	63.60	
1.000	1.000	197.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	39.21	3.3109E-03	98.50	130.4	98.50	131.5	UL-RL	7.1008E+04	-12.60	65.62	
1.000	1.000	196.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	38.94	3.1273E-03	100.6	127.1	100.6	128.1	UL-RL	7.1008E+04	-12.80	67.63	
1.000	1.000	194.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	38.70	2.9487E-03	102.7	123.9	102.7	124.9	UL-RL	7.1008E+04	-13.00	69.64	
1.000	1.000	193.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	38.48	2.7752E-03	104.8	120.8	104.8	121.8	UL-RL	7.1008E+04	-13.20	71.65	
1.000	1.000	192.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	38.29	2.6071E-03	106.9	117.8	106.9	118.8	UL-RL	7.1008E+04	-13.40	73.67	
1.000	1.000	191.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	38.13	2.4443E-03	108.9	114.9	108.9	115.9	UL-RL	7.1008E+04	-13.60	75.68	
1.000	1.000	190.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	37.98	2.2869E-03	111.0	112.2	111.0	113.2	UL-RL	7.1008E+04	-13.80	77.69	
1.000	1.000	189.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	37.87	2.1352E-03	113.1	109.6	113.1	110.6	UL-RL	7.1008E+04	-14.00	79.71	
1.000	1.000	189.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.69	1.9891E-03	115.4	121.7	115.4	123.0	UL-RL	9.3069E+04	-14.20	81.72	
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.46	1.8488E-03	117.8	118.6	117.8	119.8	UL-RL	9.3069E+04	-14.40	83.73	
1.000	1.000	202.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	40.27	1.7142E-03	120.3	115.6	120.3	116.8	UL-RL	9.3069E+04	-14.60	85.74	
1.000	1.000	201.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	40.11	1.5854E-03	122.8	112.8	122.8	114.0	UL-RL	9.3069E+04	-14.80	87.76	
1.000	1.000	200.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	40.00	1.4624E-03	125.3	110.2	125.3	111.4	UL-RL	9.3069E+04	-15.00	89.77	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
77 D	39.91	1.3452E-03	127.8	107.8	127.8	109.0	UL-RL	9.3069E+04	-15.20	91.78	
1.000	1.000	199.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
78 D	39.87	1.2337E-03	130.3	105.5	130.3	106.7	UL-RL	9.3069E+04	-15.40	93.79	
1.000	1.000	199.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
79 D	39.85	1.1279E-03	132.8	103.5	132.8	104.6	UL-RL	9.3069E+04	-15.60	95.81	
1.000	1.000	199.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
80 D	39.88	1.0275E-03	135.3	101.6	135.3	102.7	UL-RL	9.3069E+04	-15.80	97.82	
1.000	1.000	199.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
81 D	39.93	9.3253E-04	137.7	99.83	137.7	101.0	UL-RL	9.3069E+04	-16.00	99.83	
1.000	1.000	199.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
82 D	40.02	8.4280E-04	140.2	98.25	140.2	99.39	UL-RL	9.3069E+04	-16.20	101.8	
1.000	1.000	200.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
83 D	40.14	7.5816E-04	142.7	96.84	142.7	97.97	UL-RL	9.3069E+04	-16.40	103.9	
1.000	1.000	200.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
84 D	40.29	6.7840E-04	145.2	95.57	145.2	96.70	UL-RL	9.3069E+04	-16.60	105.9	
1.000	1.000	201.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
85 D	40.47	6.0334E-04	147.7	94.46	147.7	95.58	UL-RL	9.3069E+04	-16.80	107.9	
1.000	1.000	202.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
86 D	40.67	5.3274E-04	150.2	93.48	150.2	94.59	UL-RL	9.3069E+04	-17.00	109.9	
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
87 D	40.91	4.6637E-04	152.7	92.63	152.7	93.74	UL-RL	9.3069E+04	-17.20	111.9	
1.000	1.000	204.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
88 D	41.17	4.0398E-04	155.2	91.90	155.2	93.01	UL-RL	9.3069E+04	-17.40	113.9	
1.000	1.000	205.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
89 D	41.45	3.4531E-04	157.6	91.30	157.6	92.39	UL-RL	9.3069E+04	-17.60	115.9	
1.000	1.000	207.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
90 D	41.75	2.9008E-04	160.1	90.79	160.1	91.89	UL-RL	9.3069E+04	-17.80	117.9	

1.000	1.000	208.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.07	2.3802E-04	162.6	90.39	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	210.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.41	1.8884E-04	165.1	90.08	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.49	1.4227E-04	167.6	88.44	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	212.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.40	9.8020E-05	170.1	85.98	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.34	5.5828E-05	172.6	83.68	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	211.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.31	1.5423E-05	175.1	81.52	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	211.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.30	-2.3447E-05	177.5	79.48	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	211.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.32	-6.1024E-05	180.0	77.54	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	211.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.35	-9.7533E-05	182.5	75.68	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	211.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.39	-1.3318E-04	185.0	73.89	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.45	-1.6816E-04	187.5	72.15	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	212.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.51	-2.0263E-04	190.0	70.46	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.58	-2.3675E-04	192.5	68.78	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	212.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.65	-2.7064E-04	195.0	67.13	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	213.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	42.73	-3.0438E-04	197.4	65.49	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	213.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	42.80	-3.3807E-04	199.9	63.86	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	214.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.44	-3.7173E-04	202.4	62.22	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	214.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	9.83966E-09	-9.83966E-09	9.82749E-10	-4.10599E-11
2	0.24077	-0.24077	-2.52824E-10	4.81531E-02
3	0.68438	-0.68438	-4.81531E-02	0.18503
4	1.3307	-1.3307	-0.18503	0.45116
5	2.1796	-2.1796	-0.45116	0.88709
6	3.2312	-3.2312	-0.88709	1.5333
7	4.4855	-4.4855	-1.5333	2.4304
8	5.9423	-5.9423	-2.4304	3.6189
9	7.6019	-7.6019	-3.6189	5.1393
10	9.4640	-9.4640	-5.1393	7.0321
11	11.529	-11.529	-7.0321	9.3378
12	13.796	-13.796	-9.3378	12.097
13	16.266	-16.266	-12.097	15.350
14	18.939	-18.939	-15.350	19.138
15	21.815	-21.815	-19.138	23.501

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

WallElement_New_75260 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.893	-24.893	-23.501	28.480
2	28.173	-28.173	-28.480	34.114
3	31.657	-31.657	-34.114	40.446
4	35.343	-35.343	-40.446	47.514
5	39.231	-39.231	-47.514	55.360
6	48.096	-48.096	-55.360	64.980
7	55.684	-55.684	-64.980	76.116
8	61.994	-61.994	-76.116	88.515
9	67.026	-67.026	-88.515	101.92
10	70.781	-70.781	-101.92	116.08
11	73.258	-73.258	-116.08	130.73
12	74.457	-74.457	-130.73	145.62
13	74.379	-74.379	-145.62	160.50
14	73.022	-73.022	-160.50	175.10
15	70.388	-70.388	-175.10	189.18
16	66.547	-66.547	-189.18	202.49
17	61.885	-61.885	-202.49	214.86
18	57.366	-57.366	-214.86	226.34
19	53.326	-53.326	-226.34	237.00
20	49.763	-49.763	-237.00	246.95
21	46.674	-46.674	-246.95	256.29
22	44.057	-44.057	-256.29	265.10
23	41.909	-41.909	-265.10	273.48
24	40.228	-40.228	-273.48	281.53
25	39.009	-39.009	-281.53	289.33
26	38.249	-38.249	-289.33	296.98
27	37.946	-37.946	-296.98	304.57
28	38.095	-38.095	-304.57	312.19
29	38.694	-38.694	-312.19	319.93
30	39.737	-39.737	-319.93	327.87
31	41.240	-41.240	-327.87	336.12
32	43.197	-43.197	-336.12	344.76
33	45.605	-45.605	-344.76	353.88
34	48.458	-48.458	-353.88	363.57
35	51.753	-51.753	-363.57	373.92
36	55.485	-55.485	-373.92	385.02
37	59.648	-59.648	-385.02	396.95
38	64.238	-64.238	-396.95	409.80
39	69.249	-69.249	-409.80	423.65
40	74.676	-74.676	-423.65	438.58
41	80.514	-80.514	-438.58	454.69
42	86.757	-86.757	-454.69	472.04
43	93.399	-93.399	-472.04	490.72
44	100.43	-100.43	-490.72	510.80
45	107.86	-107.86	-510.80	532.38
46	115.66	-115.66	-532.38	555.51
47	104.99	-104.99	-555.51	576.50
48	95.268	-95.268	-576.50	595.56
49	86.477	-86.477	-595.56	612.85
50	78.592	-78.592	-612.85	628.57
51	71.588	-71.588	-628.57	642.89
52	65.440	-65.440	-642.89	655.98
53	60.124	-60.124	-655.98	668.00
54	55.613	-55.613	-668.00	679.12
55	51.882	-51.882	-679.12	689.50
56	48.905	-48.905	-689.50	699.28
57	30.317	-30.317	-699.28	705.35
58	12.606	-12.606	-705.35	707.87
59	-4.2651	4.2651	-707.87	707.01
60	-20.332	20.332	-707.01	702.95
61	-35.630	35.630	-702.95	695.82
62	-50.194	50.194	-695.82	685.78
63	-64.061	64.061	-685.78	672.97
64	-77.265	77.265	-672.97	657.52
65	-89.840	89.840	-657.52	639.55
66	-101.82	101.82	-639.55	619.19
67	-113.24	113.24	-619.19	596.54
68	-124.12	124.12	-596.54	571.71
69	-134.51	134.51	-571.71	544.81
70	-144.43	144.43	-544.81	515.93

71	-153.66	153.66	-515.93	485.20
72	-160.84	160.84	-485.20	453.03
73	-166.09	166.09	-453.03	419.81
74	-169.52	169.52	-419.81	385.91
75	-171.23	171.23	-385.91	351.66
76	-171.34	171.34	-351.66	317.39
77	-169.92	169.92	-317.39	283.41
78	-166.78	166.78	-283.41	250.05
79	-161.80	161.80	-250.05	217.69
80	-155.08	155.08	-217.69	186.68
81	-146.86	146.86	-186.68	157.30
82	-137.43	137.43	-157.30	129.82
83	-126.82	126.82	-129.82	104.46
84	-115.23	115.23	-104.46	81.410
85	-102.72	102.72	-81.410	60.866
86	-89.318	89.318	-60.866	43.002
87	-75.025	75.025	-43.002	27.996
88	-59.864	59.864	-27.996	16.023
89	-43.851	43.851	-16.023	7.2533
90	-26.988	26.988	-7.2533	1.8556
91	-9.2785	9.2785	-1.8556	-1.51665E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1595E+07  RIMNOR=0.3125E+08
            RENORM=0.4272E-14  REMNOR=0.1385E-16  RATIO =0.5175E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.3      RMMAX = 707.9
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1595E+07  RDR   =0.3125E+08
            RATIO=0.5175E-10  RATIO= 0.000
            MAX UN=0.2386E-07  IEQ=   33 NODE    17 DOF   1  Y-DISPL.F
            MIN UN=-.2401E-07  IEQ=   31 NODE    16 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      1  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1595E+07  RIMNOR=0.3125E+08
            RENORM=0.3231E-14  REMNOR=0.1417E-16  RATIO =0.4501E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.3      RMMAX = 707.9
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1595E+07  RDR   =0.3125E+08
            RATIO=0.4501E-10  RATIO= 0.000
            MAX UN=0.1669E-07  IEQ=   27 NODE    14 DOF   1  Y-DISPL.F
            MIN UN=-.1897E-07  IEQ=   53 NODE    27 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1595E+07  RIMNOR=0.3125E+08
            RENORM=0.3136E-14  REMNOR=0.1285E-16  RATIO =0.4434E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.3      RMMAX = 707.9
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1595E+07  RDR   =0.3125E+08
            RATIO=0.4434E-10  RATIO= 0.000
            MAX UN=0.1662E-07  IEQ=   17 NODE     9 DOF   1  Y-DISPL.F
            MIN UN=-.1233E-07  IEQ=   27 NODE    14 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                               |
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New Project
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000) SUBINCREMENT 0001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F 02	X-ROT. F 04
1	2.0128465E-02	-1.4800260E-03
2	1.9832460E-02	-1.4800260E-03
3	1.9536455E-02	-1.4800242E-03
4	1.9240451E-02	-1.4800159E-03
5	1.8944449E-02	-1.4799930E-03
6	1.8648455E-02	-1.4799448E-03
7	1.8352474E-02	-1.4798577E-03
8	1.8056516E-02	-1.4797151E-03
9	1.7760593E-02	-1.4794974E-03
10	1.7464723E-02	-1.4791823E-03
11	1.7168928E-02	-1.4787443E-03
12	1.6873236E-02	-1.4781553E-03
13	1.6577678E-02	-1.4773840E-03
14	1.6282296E-02	-1.4763964E-03
15	1.5987137E-02	-1.4751555E-03
16	1.5692254E-02	-1.4736212E-03
17	1.5397633E-02	-1.4725549E-03
18	1.5103246E-02	-1.4712709E-03
19	1.4809141E-02	-1.4697414E-03
20	1.4515368E-02	-1.4679370E-03
21	1.4221986E-02	-1.4658267E-03
22	1.3929061E-02	-1.4633581E-03
23	1.3636672E-02	-1.4604637E-03
24	1.3344910E-02	-1.4570865E-03
25	1.3053874E-02	-1.4531799E-03
26	1.2763675E-02	-1.4487080E-03
27	1.2474430E-02	-1.4436452E-03
28	1.2186258E-02	-1.4379763E-03
29	1.1899282E-02	-1.4316968E-03
30	1.1613621E-02	-1.4248125E-03
31	1.1329396E-02	-1.4173398E-03
32	1.1046722E-02	-1.4093053E-03
33	1.0765709E-02	-1.4007440E-03
34	1.0486457E-02	-1.3916933E-03
35	1.0209063E-02	-1.3821886E-03
36	9.9336114E-03	-1.3722609E-03
37	9.6601851E-03	-1.3619375E-03
38	9.3888612E-03	-1.3512419E-03
39	9.1197119E-03	-1.3401935E-03
40	8.8528076E-03	-1.3288083E-03
41	8.5882116E-03	-1.3170979E-03
42	8.3259895E-03	-1.3050706E-03
43	8.0662042E-03	-1.2927306E-03
44	7.8089181E-03	-1.2800787E-03
45	7.5541950E-03	-1.2671117E-03
46	7.3020961E-03	-1.2538230E-03
47	7.0526880E-03	-1.2402020E-03
48	6.8060384E-03	-1.2262346E-03
49	6.5622184E-03	-1.2119028E-03
50	6.3213042E-03	-1.1971853E-03
51	6.0833730E-03	-1.1820565E-03
52	5.8485156E-03	-1.1664880E-03
53	5.6168140E-03	-1.1504469E-03
54	5.3883707E-03	-1.1338975E-03
55	5.1632915E-03	-1.1168005E-03
56	4.9416899E-03	-1.0991130E-03
57	4.7236887E-03	-1.0807887E-03
58	4.5094202E-03	-1.0617782E-03
59	4.2990267E-03	-1.0420286E-03
60	4.0926618E-03	-1.0214837E-03
61	3.8904902E-03	-1.0000842E-03
62	3.6926892E-03	-9.7776777E-04
63	3.4994435E-03	-9.5454605E-04
64	3.3109256E-03	-9.3050274E-04
65	3.1272921E-03	-9.0571378E-04
66	2.9486852E-03	-8.8024758E-04
67	2.7752341E-03	-8.5416523E-04
68	2.6070566E-03	-8.2752069E-04
69	2.4442602E-03	-8.0036100E-04
70	2.2869438E-03	-7.7272647E-04
71	2.1351990E-03	-7.4465091E-04
72	1.9891110E-03	-7.1616185E-04
73	1.8487559E-03	-6.8734777E-04
74	1.7141837E-03	-6.5835758E-04

75 1.5854152E-03 -6.2933317E-04
76 1.4624437E-03 -6.0040968E-04
77 1.3452360E-03 -5.7171578E-04
78 1.2337339E-03 -5.4337400E-04
79 1.1278551E-03 -5.1550098E-04
80 1.0274948E-03 -4.8820778E-04
81 9.3252633E-04 -4.6160017E-04
82 8.4280235E-04 -4.3577890E-04
83 7.5815595E-04 -4.1083994E-04
84 6.7840145E-04 -3.8687480E-04
85 6.0333529E-04 -3.6397074E-04
86 5.3273686E-04 -3.4221106E-04
87 4.6636933E-04 -3.2167434E-04
88 4.0398110E-04 -3.0242795E-04
89 3.4530874E-04 -2.8452284E-04
90 2.9007749E-04 -2.6799383E-04
91 2.3801516E-04 -2.5286368E-04
92 1.8883832E-04 -2.3913901E-04
93 1.4226622E-04 -2.2681441E-04
94 9.8020468E-05 -2.1587118E-04
95 5.5827877E-05 -2.0627601E-04
96 1.5423391E-05 -1.9798093E-04
97 -2.3447082E-05 -1.9092464E-04
98 -6.1024223E-05 -1.8503471E-04
99 -9.7533240E-05 -1.8022889E-04
100 -1.3318198E-04 -1.7641611E-04
101 -1.6815930E-04 -1.7349751E-04
102 -2.0263351E-04 -1.7136680E-04
103 -2.3675267E-04 -1.6991029E-04
104 -2.7063624E-04 -1.6900728E-04
105 -3.0438395E-04 -1.6852979E-04
106 -3.3806753E-04 -1.6834293E-04
107 -3.7172936E-04 -1.6830487E-04

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

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ELEMENT TYPE   5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS   3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-2.0128E-02	0.000	0.000	0.4062	4.021	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2408	-1.9832E-02	3.800	1.204	4.252	6.027	UL-RL	1.4407E+04	-0.2000	0.000	
1.000	1.000	1.204	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.4436	-1.9536E-02	7.600	2.218	8.101	8.027	UL-RL	1.4407E+04	-0.4000	0.000	
1.000	1.000	2.218	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.6463	-1.9240E-02	11.40	3.232	11.95	10.02	UL-RL	1.4407E+04	-0.6000	0.000	
1.000	1.000	3.232	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.8490	-1.8944E-02	15.20	4.245	15.81	12.01	UL-RL	1.4407E+04	-0.8000	0.000	
1.000	1.000	4.245	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.052	-1.8648E-02	19.00	5.258	19.66	13.99	UL-RL	1.4407E+04	-1.000	0.000	
1.000	1.000	5.258	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.254	-1.8352E-02	22.80	6.271	23.52	15.96	UL-RL	1.4407E+04	-1.200	0.000	
1.000	1.000	6.271	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.457	-1.8057E-02	26.60	7.284	27.38	17.93	UL-RL	1.4407E+04	-1.400	0.000	
1.000	1.000	7.284	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	1.660	-1.7761E-02	30.40	8.298	31.24	19.89	UL-RL	1.4407E+04	-1.600	0.000	
1.000	1.000	8.298	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	1.862	-1.7465E-02	34.20	9.311	35.10	21.85	UL-RL	1.4407E+04	-1.800	0.000	
1.000	1.000	9.311	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.065	-1.7169E-02	38.00	10.32	38.97	23.80	UL-RL	1.4407E+04	-2.000	0.000	
1.000	1.000	10.32	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.267	-1.6873E-02	41.80	11.34	42.83	25.75	UL-RL	1.4407E+04	-2.200	0.000	
1.000	1.000	11.34	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	2.470	-1.6578E-02	45.60	12.35	46.70	27.69	UL-RL	1.4407E+04	-2.400	0.000	
1.000	1.000	12.35	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	2.673	-1.6282E-02	49.40	13.36	50.57	29.63	UL-RL	1.4407E+04	-2.600	0.000	
1.000	1.000	13.36	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	2.875	-1.5987E-02	53.20	14.38	54.44	31.56	UL-RL	1.4407E+04	-2.800	0.000	
1.000	1.000	14.38	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	3.078	-1.5692E-02	57.00	15.39	58.31	33.48	UL-RL	1.4407E+04	-3.000	0.000	
1.000	1.000	15.39	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	3.281	-1.5398E-02	60.80	16.40	62.18	35.40	UL-RL	1.4407E+04	-3.200	0.000	
1.000	1.000	16.40	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.483	-1.5103E-02	64.60	17.42	66.06	37.32	UL-RL	1.4407E+04	-3.400	0.000	
1.000	1.000	17.42	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.686	-1.4809E-02	68.40	18.43	69.93	39.23	UL-RL	1.4407E+04	-3.600	0.000	
1.000	1.000	18.43	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.889	-1.4515E-02	72.20	19.44	73.80	41.14	UL-RL	1.4407E+04	-3.800	0.000	
1.000	1.000	19.44	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	10.04	-1.4222E-02	76.00	50.18	77.68	50.20	UL-RL	2.6488E+04	-4.000	0.000	
1.000	1.000	50.18	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	10.57	-1.3929E-02	79.80	52.83	81.55	52.87	UL-RL	2.6488E+04	-4.200	0.000	

1.000	1.000	52.83	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	11.10	-1.3637E-02	83.60	55.48	85.43	55.54	UL-RL 2.6488E+04	-4.400	0.000
1.000	1.000	55.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	11.63	-1.3345E-02	87.40	58.14	89.30	58.21	UL-RL 2.6488E+04	-4.600	0.000
1.000	1.000	58.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	12.16	-1.3054E-02	91.20	60.79	93.18	60.88	UL-RL 2.6488E+04	-4.800	0.000
1.000	1.000	60.79	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	12.69	-1.2764E-02	95.00	63.44	97.05	63.55	UL-RL 2.6488E+04	-5.000	0.000
1.000	1.000	63.44	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	13.22	-1.2474E-02	98.80	66.10	100.9	66.22	UL-RL 2.6488E+04	-5.200	0.000
1.000	1.000	66.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	13.75	-1.2186E-02	102.6	68.75	104.8	68.89	UL-RL 2.6488E+04	-5.400	0.000
1.000	1.000	68.75	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	14.28	-1.1899E-02	106.4	71.40	108.7	71.56	UL-RL 2.6488E+04	-5.600	0.000
1.000	1.000	71.40	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	14.81	-1.1614E-02	110.2	74.06	112.6	74.23	UL-RL 2.6488E+04	-5.800	0.000
1.000	1.000	74.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.41	-1.1329E-02	112.9	75.93	115.3	76.12	UL-RL 2.6488E+04	-6.000	1.127
1.000	1.000	77.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.07	-1.1047E-02	114.7	77.22	117.2	77.42	UL-RL 2.6488E+04	-6.200	3.114
1.000	1.000	80.33	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	16.72	-1.0766E-02	116.5	78.50	119.1	78.72	UL-RL 2.6488E+04	-6.400	5.101
1.000	1.000	83.60	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	17.37	-1.0486E-02	118.3	79.78	121.0	80.01	UL-RL 2.6488E+04	-6.600	7.089
1.000	1.000	86.87	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	18.03	-1.0209E-02	120.1	81.06	122.8	81.31	UL-RL 2.6488E+04	-6.800	9.076
1.000	1.000	90.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	18.68	-9.9336E-03	121.9	82.35	124.7	82.61	UL-RL 2.6488E+04	-7.000	11.06
1.000	1.000	93.41	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	19.34	-9.6602E-03	123.7	83.63	126.6	83.90	UL-RL 2.6488E+04	-7.200	13.05
1.000	1.000	96.68	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	19.99	-9.3889E-03	125.6	84.91	128.5	85.20	UL-RL 2.6488E+04	-7.400	15.04
1.000	1.000	99.94	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	20.64	-9.1197E-03	127.4	86.19	130.4	86.50	UL-RL 2.6488E+04	-7.600	17.03
1.000	1.000	103.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	21.30	-8.8528E-03	129.2	87.47	132.2	87.79	UL-RL 2.6488E+04	-7.800	19.01
1.000	1.000	106.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	21.95	-8.5882E-03	131.0	88.75	134.1	89.08	UL-RL 2.6488E+04	-8.000	21.00
1.000	1.000	109.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.60	-8.3260E-03	132.8	90.02	136.0	90.38	UL-RL 2.6488E+04	-8.200	22.99
1.000	1.000	113.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.26	-8.0662E-03	134.6	91.30	137.9	91.67	UL-RL 2.6488E+04	-8.400	24.97
1.000	1.000	116.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.91	-7.8089E-03	136.4	92.58	139.7	92.96	UL-RL 2.6488E+04	-8.600	26.96
1.000	1.000	119.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	24.56	-7.5542E-03	138.3	93.85	141.6	94.25	UL-RL 2.6488E+04	-8.800	28.95
1.000	1.000	122.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	25.23	-7.3021E-03	140.1	95.21	143.7	95.67	UL-RL 2.6488E+04	-9.000	30.94
1.000	1.000	126.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	25.90	-7.0527E-03	141.9	96.57	145.7	97.10	UL-RL 2.6488E+04	-9.200	32.92
1.000	1.000	129.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	26.57	-6.8060E-03	143.7	97.93	147.8	98.52	UL-RL 2.6488E+04	-9.400	34.91
1.000	1.000	132.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	27.24	-6.5622E-03	145.5	99.29	149.9	99.94	UL-RL 2.6488E+04	-9.600	36.90
1.000	1.000	136.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	27.91	-6.3213E-03	147.3	100.6	151.9	101.4	UL-RL 2.6488E+04	-9.800	38.89
1.000	1.000	139.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	28.57	-6.0834E-03	149.1	102.0	154.0	102.8	UL-RL 2.6488E+04	-10.00	40.87
1.000	1.000	142.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	29.24	-5.8485E-03	150.9	103.3	156.0	104.2	UL-RL 2.6488E+04	-10.20	42.86
1.000	1.000	146.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	29.91	-5.6168E-03	152.8	104.7	158.1	105.6	UL-RL	2.6488E+04	-10.40	44.85
1.000	1.000	149.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.57	-5.3884E-03	154.6	106.0	160.1	107.0	UL-RL	2.6488E+04	-10.60	46.83
1.000	1.000	152.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.24	-5.1633E-03	156.4	107.4	162.1	108.4	UL-RL	2.6488E+04	-10.80	48.82
1.000	1.000	156.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	31.90	-4.9417E-03	158.2	108.7	164.1	109.8	UL-RL	2.6488E+04	-11.00	50.81
1.000	1.000	159.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	32.57	-4.7237E-03	160.0	110.0	166.2	111.2	UL-RL	2.6488E+04	-11.20	52.80
1.000	1.000	162.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	33.23	-4.5094E-03	161.8	111.4	168.2	112.6	UL-RL	2.6488E+04	-11.40	54.78
1.000	1.000	166.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	33.90	-4.2990E-03	163.6	112.7	170.2	113.9	UL-RL	2.6488E+04	-11.60	56.77
1.000	1.000	169.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	34.56	-4.0927E-03	165.4	114.0	172.2	115.3	UL-RL	2.6488E+04	-11.80	58.76
1.000	1.000	172.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	35.22	-3.8905E-03	167.3	115.4	174.2	116.7	UL-RL	2.6488E+04	-12.00	60.75
1.000	1.000	176.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.14	-3.6927E-03	169.2	82.95	176.3	88.20	UL-RL	9.4545E+04	-12.20	62.73
1.000	1.000	145.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.78	-3.4994E-03	171.3	84.16	178.6	89.21	UL-RL	9.4545E+04	-12.40	64.72
1.000	1.000	148.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	30.42	-3.3109E-03	173.4	85.38	180.9	90.22	UL-RL	9.4545E+04	-12.60	66.71
1.000	1.000	152.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	31.06	-3.1273E-03	175.5	86.59	183.2	91.23	UL-RL	9.4545E+04	-12.80	68.70
1.000	1.000	155.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	31.70	-2.9487E-03	177.6	87.80	185.5	92.24	UL-RL	9.4545E+04	-13.00	70.68
1.000	1.000	158.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	32.34	-2.7752E-03	179.7	89.01	187.8	93.25	UL-RL	9.4545E+04	-13.20	72.67
1.000	1.000	161.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	32.98	-2.6071E-03	181.9	90.22	190.1	94.27	UL-RL	9.4545E+04	-13.40	74.66
1.000	1.000	164.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	33.61	-2.4443E-03	184.0	91.43	192.4	95.28	UL-RL	9.4545E+04	-13.60	76.64
1.000	1.000	168.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	34.25	-2.2869E-03	186.1	92.64	194.6	96.29	UL-RL	9.4545E+04	-13.80	78.63
1.000	1.000	171.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	34.89	-2.1352E-03	188.2	93.85	196.9	97.30	UL-RL	9.4545E+04	-14.00	80.62
1.000	1.000	174.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	22.10	-1.9891E-03	190.5	27.88	199.3	98.40	UL-RL	1.2392E+05	-14.20	82.61
1.000	1.000	110.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	22.75	-1.8488E-03	193.0	29.14	202.0	99.61	UL-RL	1.2392E+05	-14.40	84.59
1.000	1.000	113.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	23.40	-1.7142E-03	195.5	30.41	204.7	100.8	UL-RL	1.2392E+05	-14.60	86.58
1.000	1.000	117.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	24.05	-1.5854E-03	198.0	31.67	207.3	102.0	UL-RL	1.2392E+05	-14.80	88.57
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.70	-1.4624E-03	200.5	32.94	210.0	103.3	UL-RL	1.2392E+05	-15.00	90.56
1.000	1.000	123.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	25.35	-1.3452E-03	203.0	34.20	212.6	104.5	UL-RL	1.2392E+05	-15.20	92.54
1.000	1.000	126.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	26.00	-1.2337E-03	205.5	35.47	215.3	105.7	UL-RL	1.2392E+05	-15.40	94.53
1.000	1.000	130.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.65	-1.1279E-03	208.1	36.73	218.0	106.9	UL-RL	1.2392E+05	-15.60	96.52
1.000	1.000	133.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.30	-1.0275E-03	210.6	38.00	220.6	108.1	UL-RL	1.2392E+05	-15.80	98.50
1.000	1.000	136.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	27.95	-9.3253E-04	213.1	39.27	223.3	109.3	UL-RL	1.2392E+05	-16.00	100.5
1.000	1.000	139.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.60	-8.4280E-04	215.6	40.54	225.9	110.6	UL-RL	1.2392E+05	-16.20	102.5
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.25	-7.5816E-04	218.1	41.80	228.5	111.8	UL-RL	1.2392E+05	-16.40	104.5
1.000	1.000	146.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	29.91	-6.7840E-04	220.6	43.07	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	149.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.55	-6.0334E-04	223.1	44.30	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	152.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.44	-5.3274E-04	225.7	46.77	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	157.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.73	-4.6637E-04	228.2	56.22	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	168.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	35.92	-4.0398E-04	230.7	65.19	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	179.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.02	-3.4531E-04	233.2	73.70	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	190.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.03	-2.9008E-04	235.7	81.78	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	200.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	41.97	-2.3802E-04	238.2	89.46	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	209.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	43.83	-1.8884E-04	240.7	96.79	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	219.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.63	-1.4227E-04	243.2	103.8	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	228.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.37	-9.8020E-05	245.8	110.5	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	236.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.06	-5.5828E-05	248.3	117.0	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	245.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.53	-1.5423E-05	250.8	122.3	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	252.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.74	2.3447E-05	253.3	126.4	263.2	130.3	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	258.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	52.93	6.1024E-05	255.8	130.4	265.6	132.5	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	264.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	53.94	9.7533E-05	258.3	133.4	268.1	135.1	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	269.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	54.90	1.3318E-04	260.8	136.2	270.6	137.7	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	274.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	55.85	1.6816E-04	263.3	139.0	273.0	140.3	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	279.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	56.80	2.0263E-04	265.9	141.8	275.5	142.9	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	284.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.74	2.3675E-04	268.4	144.5	278.0	145.6	UL-RL	1.2392E+05	-20.40	144.2
1.000	1.000	288.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.66	2.7064E-04	270.9	147.1	280.4	148.2	UL-RL	1.2392E+05	-20.60	146.2
1.000	1.000	293.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.59	3.0438E-04	273.4	149.8	282.9	150.8	UL-RL	1.2392E+05	-20.80	148.2
1.000	1.000	297.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.51	3.3807E-04	275.9	152.4	285.4	153.4	UL-RL	1.2392E+05	-21.00	150.2
1.000	1.000	302.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.72	3.7173E-04	278.4	155.0	287.8	156.1	UL-RL	1.2392E+05	-21.20	152.2
1.000	1.000	307.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

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O_R :
ELEMENT TYPE   5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Coh_e_a	MAX-H-P Coh_e_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	1.170	1.4222E-02	0.000	5.849	0.000	6.171	UL-RL 2.1501E+04		-4.000	0.000	
1.000	1.000	5.849	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.978	1.3929E-02	3.800	14.89	3.800	15.21	UL-RL 2.1501E+04		-4.200	0.000	
1.000	1.000	14.89	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.787	1.3637E-02	7.600	23.93	7.600	24.26	UL-RL 2.1501E+04		-4.400	0.000	
1.000	1.000	23.93	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.595	1.3345E-02	11.40	32.97	11.40	33.30	UL-RL 2.1501E+04		-4.600	0.000	
1.000	1.000	32.97	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.403	1.3054E-02	15.20	42.02	15.20	42.35	UL-RL 2.1501E+04		-4.800	0.000	
1.000	1.000	42.02	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.21	1.2764E-02	19.00	51.06	19.00	51.39	UL-RL 2.1501E+04		-5.000	0.000	
1.000	1.000	51.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.02	1.2474E-02	22.80	60.10	22.80	60.43	UL-RL 2.1501E+04		-5.200	0.000	
1.000	1.000	60.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.83	1.2186E-02	26.60	69.14	26.60	69.48	UL-RL 2.1501E+04		-5.400	0.000	
1.000	1.000	69.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.64	1.1899E-02	30.40	78.18	30.40	78.52	UL-RL 2.1501E+04	-5.600	0.000
1.000	1.000	78.18	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	17.45	1.1614E-02	34.20	87.23	34.20	87.57	UL-RL 2.1501E+04	-5.800	0.000
1.000	1.000	87.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.25	1.1329E-02	38.00	96.27	38.00	96.61	UL-RL 2.1501E+04	-6.000	0.000
1.000	1.000	96.27	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.73	1.1047E-02	40.59	102.4	40.59	102.8	UL-RL 2.1501E+04	-6.200	1.211
1.000	1.000	103.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.24	1.0766E-02	42.38	103.0	42.38	103.3	UL-RL 2.1501E+04	-6.400	3.223
1.000	1.000	106.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	21.41	1.0486E-02	44.16	101.8	44.16	102.2	UL-RL 2.1501E+04	-6.600	5.236
1.000	1.000	107.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	21.59	1.0209E-02	45.95	100.7	45.95	101.1	UL-RL 2.1501E+04	-6.800	7.249
1.000	1.000	108.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	21.77	9.9336E-03	47.74	99.59	47.74	99.94	UL-RL 2.1501E+04	-7.000	9.261
1.000	1.000	108.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	21.95	9.6602E-03	49.53	98.49	49.53	98.84	UL-RL 2.1501E+04	-7.200	11.27
1.000	1.000	109.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.14	9.3889E-03	51.31	97.40	51.31	97.75	UL-RL 2.1501E+04	-7.400	13.29
1.000	1.000	110.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	22.32	9.1197E-03	53.10	96.32	53.10	96.68	UL-RL 2.1501E+04	-7.600	15.30
1.000	1.000	111.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	22.51	8.8528E-03	54.89	95.26	54.89	95.62	UL-RL 2.1501E+04	-7.800	17.31
1.000	1.000	112.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	22.71	8.5882E-03	56.68	94.22	56.68	94.58	UL-RL 2.1501E+04	-8.000	19.32
1.000	1.000	113.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.91	8.3260E-03	58.46	93.19	58.46	93.55	UL-RL 2.1501E+04	-8.200	21.34
1.000	1.000	114.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.11	8.0662E-03	60.25	92.18	60.25	92.54	UL-RL 2.1501E+04	-8.400	23.35
1.000	1.000	115.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.31	7.8089E-03	62.04	91.18	62.04	91.55	UL-RL 2.1501E+04	-8.600	25.36
1.000	1.000	116.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	23.52	7.5542E-03	63.82	90.21	63.82	90.57	UL-RL 2.1501E+04	-8.800	27.38
1.000	1.000	117.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	23.73	7.3021E-03	65.61	89.25	65.61	89.62	UL-RL 2.1501E+04	-9.000	29.39
1.000	1.000	118.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	23.94	7.0527E-03	67.40	88.31	67.40	88.68	UL-RL 2.1501E+04	-9.200	31.40
1.000	1.000	119.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	24.16	6.8060E-03	69.19	87.39	69.19	87.76	UL-RL 2.1501E+04	-9.400	33.41
1.000	1.000	120.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	24.38	6.5622E-03	70.97	86.49	70.97	86.86	UL-RL 2.1501E+04	-9.600	35.43
1.000	1.000	121.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	24.61	6.3213E-03	72.76	85.61	72.76	85.98	UL-RL 2.1501E+04	-9.800	37.44
1.000	1.000	123.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	24.84	6.0834E-03	74.55	84.76	74.55	85.12	UL-RL 2.1501E+04	-10.00	39.45
1.000	1.000	124.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	25.08	5.8485E-03	76.34	83.92	76.34	84.28	UL-RL 2.1501E+04	-10.20	41.46
1.000	1.000	125.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	25.32	5.6168E-03	78.12	83.11	78.12	83.47	UL-RL 2.1501E+04	-10.40	43.48
1.000	1.000	126.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	25.56	5.3884E-03	79.91	82.32	79.91	82.68	UL-RL 2.1501E+04	-10.60	45.49
1.000	1.000	127.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	25.81	5.1633E-03	81.70	81.55	81.70	81.91	UL-RL 2.1501E+04	-10.80	47.50
1.000	1.000	129.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	26.07	4.9417E-03	83.48	80.81	83.48	81.17	UL-RL 2.1501E+04	-11.00	49.52
1.000	1.000	130.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	26.33	4.7237E-03	85.27	80.10	85.27	80.45	UL-RL 2.1501E+04	-11.20	51.53
1.000	1.000	131.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	26.59	4.5094E-03	87.06	79.41	87.06	79.76	UL-RL 2.1501E+04	-11.40	53.54
1.000	1.000	133.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	26.86	4.2990E-03	88.85	78.75	88.85	79.10	UL-RL 2.1501E+04	-11.60	55.55
1.000	1.000	134.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	27.14	4.0927E-03	90.63	78.12	90.63	78.46	UL-RL	2.1501E+04	-11.80	57.57	
1.000	1.000	135.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	27.42	3.8905E-03	92.42	77.52	92.42	77.86	UL-RL	2.1501E+04	-12.00	59.58	
1.000	1.000	137.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	39.81	3.6927E-03	94.33	137.4	94.33	138.5	UL-RL	7.1008E+04	-12.20	61.59	
1.000	1.000	199.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	39.50	3.4994E-03	96.42	133.9	96.42	135.0	UL-RL	7.1008E+04	-12.40	63.60	
1.000	1.000	197.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	39.21	3.3109E-03	98.50	130.4	98.50	131.5	UL-RL	7.1008E+04	-12.60	65.62	
1.000	1.000	196.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	38.94	3.1273E-03	100.6	127.1	100.6	128.1	UL-RL	7.1008E+04	-12.80	67.63	
1.000	1.000	194.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	38.70	2.9487E-03	102.7	123.9	102.7	124.9	UL-RL	7.1008E+04	-13.00	69.64	
1.000	1.000	193.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	38.48	2.7752E-03	104.8	120.8	104.8	121.8	UL-RL	7.1008E+04	-13.20	71.65	
1.000	1.000	192.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	38.29	2.6071E-03	106.9	117.8	106.9	118.8	UL-RL	7.1008E+04	-13.40	73.67	
1.000	1.000	191.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	38.13	2.4443E-03	108.9	114.9	108.9	115.9	UL-RL	7.1008E+04	-13.60	75.68	
1.000	1.000	190.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	37.98	2.2869E-03	111.0	112.2	111.0	113.2	UL-RL	7.1008E+04	-13.80	77.69	
1.000	1.000	189.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	37.87	2.1352E-03	113.1	109.6	113.1	110.6	UL-RL	7.1008E+04	-14.00	79.71	
1.000	1.000	189.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.69	1.9891E-03	115.4	121.7	115.4	123.0	UL-RL	9.3069E+04	-14.20	81.72	
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.46	1.8488E-03	117.8	118.6	117.8	119.8	UL-RL	9.3069E+04	-14.40	83.73	
1.000	1.000	202.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	40.27	1.7142E-03	120.3	115.6	120.3	116.8	UL-RL	9.3069E+04	-14.60	85.74	
1.000	1.000	201.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	40.11	1.5854E-03	122.8	112.8	122.8	114.0	UL-RL	9.3069E+04	-14.80	87.76	
1.000	1.000	200.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	40.00	1.4624E-03	125.3	110.2	125.3	111.4	UL-RL	9.3069E+04	-15.00	89.77	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
77 D	39.91	1.3452E-03	127.8	107.8	127.8	109.0	UL-RL	9.3069E+04	-15.20	91.78	
1.000	1.000	199.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
78 D	39.87	1.2337E-03	130.3	105.5	130.3	106.7	UL-RL	9.3069E+04	-15.40	93.79	
1.000	1.000	199.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
79 D	39.85	1.1279E-03	132.8	103.5	132.8	104.6	UL-RL	9.3069E+04	-15.60	95.81	
1.000	1.000	199.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
80 D	39.88	1.0275E-03	135.3	101.6	135.3	102.7	UL-RL	9.3069E+04	-15.80	97.82	
1.000	1.000	199.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
81 D	39.93	9.3253E-04	137.7	99.83	137.7	101.0	UL-RL	9.3069E+04	-16.00	99.83	
1.000	1.000	199.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
82 D	40.02	8.4280E-04	140.2	98.25	140.2	99.39	UL-RL	9.3069E+04	-16.20	101.8	
1.000	1.000	200.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
83 D	40.14	7.5816E-04	142.7	96.84	142.7	97.97	UL-RL	9.3069E+04	-16.40	103.9	
1.000	1.000	200.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
84 D	40.29	6.7840E-04	145.2	95.57	145.2	96.70	UL-RL	9.3069E+04	-16.60	105.9	
1.000	1.000	201.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
85 D	40.47	6.0334E-04	147.7	94.46	147.7	95.58	UL-RL	9.3069E+04	-16.80	107.9	
1.000	1.000	202.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
86 D	40.67	5.3274E-04	150.2	93.48	150.2	94.59	UL-RL	9.3069E+04	-17.00	109.9	
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
87 D	40.91	4.6637E-04	152.7	92.63	152.7	93.74	UL-RL	9.3069E+04	-17.20	111.9	
1.000	1.000	204.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
88 D	41.17	4.0398E-04	155.2	91.90	155.2	93.01	UL-RL	9.3069E+04	-17.40	113.9	
1.000	1.000	205.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
89 D	41.45	3.4531E-04	157.6	91.30	157.6	92.39	UL-RL	9.3069E+04	-17.60	115.9	
1.000	1.000	207.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
90 D	41.75	2.9008E-04	160.1	90.79	160.1	91.89	UL-RL	9.3069E+04	-17.80	117.9	

1.000	1.000	208.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.07	2.3802E-04	162.6	90.39	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	210.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.41	1.8884E-04	165.1	90.08	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.49	1.4227E-04	167.6	88.44	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	212.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.40	9.8020E-05	170.1	85.98	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.34	5.5828E-05	172.6	83.68	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	211.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.31	1.5423E-05	175.1	81.52	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	211.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.30	-2.3447E-05	177.5	79.48	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	211.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.32	-6.1024E-05	180.0	77.54	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	211.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.35	-9.7533E-05	182.5	75.68	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	211.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.39	-1.3318E-04	185.0	73.89	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.45	-1.6816E-04	187.5	72.15	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	212.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.51	-2.0263E-04	190.0	70.46	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.58	-2.3675E-04	192.5	68.78	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	212.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.65	-2.7064E-04	195.0	67.13	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	213.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	42.73	-3.0438E-04	197.4	65.49	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	213.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	42.80	-3.3807E-04	199.9	63.86	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	214.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.44	-3.7173E-04	202.4	62.22	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	214.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
+-----+

```

New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.80439E-09	4.80439E-09	-4.81655E-10	-1.50546E-09
2	0.24077	-0.24077	1.16940E-09	4.81531E-02
3	0.68438	-0.68438	-4.81531E-02	0.18503
4	1.3307	-1.3307	-0.18503	0.45116
5	2.1796	-2.1796	-0.45116	0.88709
6	3.2312	-3.2312	-0.88709	1.5333
7	4.4855	-4.4855	-1.5333	2.4304
8	5.9423	-5.9423	-2.4304	3.6189
9	7.6019	-7.6019	-3.6189	5.1393
10	9.4640	-9.4640	-5.1393	7.0321
11	11.529	-11.529	-7.0321	9.3378
12	13.796	-13.796	-9.3378	12.097
13	16.266	-16.266	-12.097	15.350
14	18.939	-18.939	-15.350	19.138
15	21.815	-21.815	-19.138	23.501

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                               |
+-----+

```

New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

```

Wallelement_New_75260
ELEMENT TYPE   2 NO.OF ELEMENTS. IN THIS GROUP   91
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

```

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.893	-24.893	-23.501	28.480
2	28.173	-28.173	-28.480	34.114
3	31.657	-31.657	-34.114	40.446
4	35.343	-35.343	-40.446	47.514
5	39.231	-39.231	-47.514	55.360
6	48.096	-48.096	-55.360	64.980
7	55.684	-55.684	-64.980	76.116
8	61.994	-61.994	-76.116	88.515
9	67.026	-67.026	-88.515	101.92
10	70.781	-70.781	-101.92	116.08
11	73.258	-73.258	-116.08	130.73
12	74.457	-74.457	-130.73	145.62
13	74.379	-74.379	-145.62	160.50
14	73.022	-73.022	-160.50	175.10
15	70.388	-70.388	-175.10	189.18
16	66.547	-66.547	-189.18	202.49
17	61.885	-61.885	-202.49	214.86
18	57.366	-57.366	-214.86	226.34
19	53.326	-53.326	-226.34	237.00
20	49.763	-49.763	-237.00	246.95
21	46.674	-46.674	-246.95	256.29
22	44.057	-44.057	-256.29	265.10
23	41.909	-41.909	-265.10	273.48
24	40.228	-40.228	-273.48	281.53
25	39.009	-39.009	-281.53	289.33
26	38.249	-38.249	-289.33	296.98
27	37.946	-37.946	-296.98	304.57
28	38.095	-38.095	-304.57	312.19
29	38.694	-38.694	-312.19	319.93
30	39.737	-39.737	-319.93	327.87
31	41.240	-41.240	-327.87	336.12
32	43.197	-43.197	-336.12	344.76
33	45.605	-45.605	-344.76	353.88
34	48.458	-48.458	-353.88	363.57
35	51.753	-51.753	-363.57	373.92
36	55.485	-55.485	-373.92	385.02
37	59.648	-59.648	-385.02	396.95
38	64.238	-64.238	-396.95	409.80
39	69.249	-69.249	-409.80	423.65
40	74.676	-74.676	-423.65	438.58
41	80.514	-80.514	-438.58	454.69
42	86.757	-86.757	-454.69	472.04
43	93.399	-93.399	-472.04	490.72
44	100.43	-100.43	-490.72	510.80
45	107.86	-107.86	-510.80	532.38
46	115.66	-115.66	-532.38	555.51
47	104.99	-104.99	-555.51	576.50
48	95.268	-95.268	-576.50	595.56
49	86.477	-86.477	-595.56	612.85
50	78.592	-78.592	-612.85	628.57
51	71.588	-71.588	-628.57	642.89
52	65.440	-65.440	-642.89	655.98
53	60.124	-60.124	-655.98	668.00
54	55.613	-55.613	-668.00	679.12
55	51.882	-51.882	-679.12	689.50
56	48.905	-48.905	-689.50	699.28
57	30.317	-30.317	-699.28	705.35
58	12.606	-12.606	-705.35	707.87
59	-4.2651	4.2651	-707.87	707.01
60	-20.332	20.332	-707.01	702.95
61	-35.630	35.630	-702.95	695.82
62	-50.194	50.194	-695.82	685.78
63	-64.061	64.061	-685.78	672.97
64	-77.265	77.265	-672.97	657.52
65	-89.840	89.840	-657.52	639.55
66	-101.82	101.82	-639.55	619.19
67	-113.24	113.24	-619.19	596.54
68	-124.12	124.12	-596.54	571.71
69	-134.51	134.51	-571.71	544.81
70	-144.43	144.43	-544.81	515.93

71	-153.66	153.66	-515.93	485.20
72	-160.84	160.84	-485.20	453.03
73	-166.09	166.09	-453.03	419.81
74	-169.52	169.52	-419.81	385.91
75	-171.23	171.23	-385.91	351.66
76	-171.34	171.34	-351.66	317.39
77	-169.92	169.92	-317.39	283.41
78	-166.78	166.78	-283.41	250.05
79	-161.80	161.80	-250.05	217.69
80	-155.08	155.08	-217.69	186.68
81	-146.86	146.86	-186.68	157.30
82	-137.43	137.43	-157.30	129.82
83	-126.82	126.82	-129.82	104.46
84	-115.23	115.23	-104.46	81.410
85	-102.72	102.72	-81.410	60.866
86	-89.318	89.318	-60.866	43.002
87	-75.025	75.025	-43.002	27.996
88	-59.864	59.864	-27.996	16.023
89	-43.851	43.851	-16.023	7.2533
90	-26.988	26.988	-7.2533	1.8556
91	-9.2785	9.2785	-1.8556	-1.52577E-11

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|          ParatiePlus                                                                           |
|          Exe Time :28 January 2022  15:34:59                                               |
+-----+
```

F I N A L I N C R E M E N T A L A N A L Y S I S

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	6
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	2

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME ... 0.06 [sec]

DATABASE CREATION CPU TIME..... 0.19 [sec]

8.5. Design Assumption : A1+M1+R1 (R3 per tiranti) - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1 (R3 per tiranti)
* Time:venerdì 28 gennaio 2022 15:34:59
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_36 0 -21.2 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_36 -21.2 0 1 0
SOIL 0_R LeftWall_36 -21.2 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Rilevato_76031_14_L_0)
*
LDATA Rilevato_76031_14_L_0 15 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 35 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 40000 40000
ENDL
*
* Soil Profile (Ala_76024_15_L_0)
*
LDATA Ala_76024_15_L_0 -4 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 2 25 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 30000 90000
ENDL
*
* Soil Profile (Salt_175_16_L_0)
*
LDATA Salt_175_16_L_0 -12.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 20.5 10.5 10
PERMEABILITY 1E-05
RESISTANCE 10 27 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 1.03E+05 3.09E+05
ENDL
*
* Soil Profile (Pa_37608_76032_L_0)
*
LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 22.5 12.5 10
PERMEABILITY 1E-05
RESISTANCE 50 27 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 1.35E+05 4.05E+05
ENDL

* 5: Defining structural materials
* Steel material: 114 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_114 2.06E+08
* Concrete material: 112 Name=C32/40 E=33345800 kPa
MATERIAL C3240_112 3.3346E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
** rev 2021 and later
BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0

* 6.2: Supports
```

```

* 6.3: Strips
STRIP LeftWall_36 1 1 11.4 9.9 4.7 46.154 45

* 7: Defining Steps
STEP Finale_40504
CHANGE Rilevato_76031_14_L_0 U-FRICT=35 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-FRICT=35 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KA=0.266 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KP=9.735 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KA=0.235 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KP=5.879 LeftWall_36
CHANGE Ala_76024_15_L_0 U-FRICT=25 LeftWall_36
CHANGE Ala_76024_15_L_0 D-FRICT=25 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KA=0.689 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KP=4.351 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KA=0.322 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KP=2.38 LeftWall_36
CHANGE Salt_175_16_L_0 U-FRICT=27 LeftWall_36
CHANGE Salt_175_16_L_0 D-FRICT=27 LeftWall_36
CHANGE Salt_175_16_L_0 U-KA=0.557 LeftWall_36
CHANGE Salt_175_16_L_0 U-KP=4.793 LeftWall_36
CHANGE Salt_175_16_L_0 D-KA=0.298 LeftWall_36
CHANGE Salt_175_16_L_0 D-KP=2.641 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KA=0.496 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KP=4.484 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KA=0.298 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KP=2.687 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 U-COHE=2 LeftWall_36
CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 D-COHE=2 LeftWall_36
CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ADD WallElement_11138 WallElement_New_75260
ENDSTEP

STEP StageA_205794
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

STEP Sisma_79386
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

```

8.6. Design Assumption : A1+M1+R1 (R3 per tiranti) - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS(TM)   NLS ENGINE RELEASE   2022.0.0   FULL VERSION   *Build date:Sep 13, 2021*          |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
+-----+

*****
*                                                                                               *
*   PARATIE PLUS Non-Linear Spring Engine                                                       *
*                                                                                               *
*                                                                                               *
*   AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                                    *
*                                                                                               *

```

```

*           FOR FLEXIBLE EARTH-RETAINING STRUCTURES           *
*                                                                 *
*           Written by CEAS s.r.l. (ITALY)                     *
*           with the scientific supervision of                   *
*           Roberto Nova - full professor SOIL MECHANICS      *
*           at Politecnico di Milano (ITALY)                   *
*                                                                 *
*****
*                                                                 *
*   RELEASE   2022.0.0   *Build date:Sep 13, 2021*             *
*                                                                 *
*   CEAS S.R.L VIALE   GIUSTINIANO 10                          *
*   20129   M I L A N O   (ITALIA)                             *
*   TEL.    +39 02 2020221                                     *
*                                                                 *
*   email    bruno.becci@ceas.it                               *
*   Web Page  www.ceas.it   www.paratieplus.com                *
*****

```

JOB : ParatiePlus

STARTING

```

ACCEPTED &lt;FILE,GENW                                     &gt;
ACCEPTED &lt;FILE,PLOTTER,BINARY                           &gt;
ACCEPTED &lt;SOLVE TOTAL_STRESS                             &gt;
ACCEPTED &lt;PARAM ITEMAX 40                                &gt;
ACCEPTED &lt;CONTROL CONTACT LAGRANGE                       &gt;
ACCEPTED &lt;CONTROL HINGES 0 0.0001 0.001                 &gt;

```

```

*****
*                                                                 *
*   WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED      *
*   BY THE PROGRAM.                                          *
*****

```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                           |
|                                                                                               Exe Time :28 January 2022   15:34:59                                                                           |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 107
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 214
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 109
NO. OF LONG NAMES (LASTNAME) ..... 17
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
MAX INELASTIC DISPL. TABLE LENGTH..... 0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

```

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F

```

RELEVANT ITEMS UNITS

```

STRESSES                kPa
Y-DISPLACEMENTS        m
ROTATIONS                RADIANS
BEAM AND SLAB MOMENTS   kN*m/m
BEAM SHEAR FORCES       kN/m
ANCHOR FORCES           kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS    kN/m
Y-REACTIONS             kN/m
X-MOMENT REACTIONS      kN*m/m
ETC.

```

-----+-----+
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021* |
| | |
| ParatiePlus |
| Exe Time :28 January 2022 15:34:59 |
+-----+-----+

P R E P R O C E S S O R D A T A

N O . O F C O M M A N D S 109

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control contact lagrange
6 : option control hinges 0 0.0001 0.001
7 : WALL LeftWall_36 0 -21.2 0 1
8 : SOIL 0_L LeftWall_36 -21.2 0 1 0
9 : SOIL 0_R LeftWall_36 -21.2 0 2 180
10 : LDATA Rilevato_76031_14_L_0 15 LeftWall_36
11 : ATREST 0.5 0.5 1
12 : WEIGHT 19 9 10
13 : PERMEABILITY 1E-05
14 : RESISTANCE 0 35 0 0 0
15 : TZDATA LINEAR 0 0 0 0.5 0
16 : KSCALE 0 0
17 : YOUNG 40000 40000
18 : ENDL
19 : LDATA Ala_76024_15_L_0 -4 LeftWall_36
20 : ATREST 0.5 0.5 1
21 : WEIGHT 19 9 10
22 : PERMEABILITY 1E-05
23 : RESISTANCE 2 25 0 0 0
24 : TZDATA LINEAR 0 0 0 0.5 0
25 : KSCALE 0 0
26 : YOUNG 30000 90000
27 : ENDL
28 : LDATA Salt_175_16_L_0 -12.12 LeftWall_36
29 : ATREST 0.5 0.5 1
30 : WEIGHT 20.5 10.5 10
31 : PERMEABILITY 1E-05
32 : RESISTANCE 10 27 0 0 0
33 : TZDATA LINEAR 10000 0 25 0.5 0
34 : KSCALE 0 0
35 : YOUNG 1.03E+05 3.09E+05
36 : ENDL
37 : LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
38 : ATREST 0.5 0.5 1
39 : WEIGHT 22.5 12.5 10
40 : PERMEABILITY 1E-05
41 : RESISTANCE 50 27 0 0 0
42 : TZDATA LINEAR 0 0 0 0.5 0
43 : KSCALE 0 0
44 : YOUNG 1.35E+05 4.05E+05
45 : ENDL
46 : MATERIAL Fe360_114 2.06E+08
47 : MATERIAL C3240_112 3.3346E+07
48 : BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
49 : BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0
50 : STRIP LeftWall_36 1 1 11.4 9.9 4.7 46.154 45
51 : STEP Finale_40504
52 : CHANGE Rilevato_76031_14_L_0 U-FRICT=35 LeftWall_36
53 : CHANGE Rilevato_76031_14_L_0 D-FRICT=35 LeftWall_36
54 : CHANGE Rilevato_76031_14_L_0 U-KA=0.266 LeftWall_36
55 : CHANGE Rilevato_76031_14_L_0 U-KP=9.735 LeftWall_36
56 : CHANGE Rilevato_76031_14_L_0 D-KA=0.235 LeftWall_36
57 : CHANGE Rilevato_76031_14_L_0 D-KP=5.879 LeftWall_36
58 : CHANGE Ala_76024_15_L_0 U-FRICT=25 LeftWall_36
59 : CHANGE Ala_76024_15_L_0 D-FRICT=25 LeftWall_36
60 : CHANGE Ala_76024_15_L_0 U-KA=0.689 LeftWall_36
61 : CHANGE Ala_76024_15_L_0 U-KP=4.351 LeftWall_36
62 : CHANGE Ala_76024_15_L_0 D-KA=0.322 LeftWall_36
63 : CHANGE Ala_76024_15_L_0 D-KP=2.38 LeftWall_36
64 : CHANGE Salt_175_16_L_0 U-FRICT=27 LeftWall_36
65 : CHANGE Salt_175_16_L_0 D-FRICT=27 LeftWall_36
66 : CHANGE Salt_175_16_L_0 U-KA=0.557 LeftWall_36
67 : CHANGE Salt_175_16_L_0 U-KP=4.793 LeftWall_36
68 : CHANGE Salt_175_16_L_0 D-KA=0.298 LeftWall_36
69 : CHANGE Salt_175_16_L_0 D-KP=2.641 LeftWall_36
70 : CHANGE Pa_37608_76032_L_0 U-FRICT=27 LeftWall_36
71 : CHANGE Pa_37608_76032_L_0 D-FRICT=27 LeftWall_36
72 : CHANGE Pa_37608_76032_L_0 U-KA=0.496 LeftWall_36
73 : CHANGE Pa_37608_76032_L_0 U-KP=4.484 LeftWall_36
74 : CHANGE Pa_37608_76032_L_0 D-KA=0.298 LeftWall_36
75 : CHANGE Pa_37608_76032_L_0 D-KP=2.687 LeftWall_36
76 : CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
77 : CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
78 : CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
79 : CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36

```
80 : CHANGE Ala_76024_15_L_0 U-COHE=2 LeftWall_36
81 : CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
82 : CHANGE Ala_76024_15_L_0 D-COHE=2 LeftWall_36
83 : CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
84 : CHANGE Salt_175_16_L_0 U-COHE=10 LeftWall_36
85 : CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
86 : CHANGE Salt_175_16_L_0 D-COHE=10 LeftWall_36
87 : CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
88 : CHANGE Pa_37608_76032_L_0 U-COHE=50 LeftWall_36
89 : CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
90 : CHANGE Pa_37608_76032_L_0 D-COHE=50 LeftWall_36
91 : CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
92 : SETWALL LeftWall_36
93 : GEOM 0 -4
94 : SURCHARGE 0 0 0 0
95 : WATER -5.8866 0.1931 -21.2 0 0
96 : ADD WallElement_11138 WallElement_New_75260
97 : ENDSTEP
98 : STEP StageA_205794
99 : SETWALL LeftWall_36
100 : GEOM 0 -4
101 : SURCHARGE 0 0 0 0
102 : WATER -5.8866 0.1931 -21.2 0 0
103 : ENDSTEP
104 : STEP Sisma_79386
105 : SETWALL LeftWall_36
106 : GEOM 0 -4
107 : SURCHARGE 0 0 0 0
108 : WATER -5.8866 0.1931 -21.2 0 0
109 : ENDSTEP
```



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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                                                                                               |
+-----+

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N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /				
1	0.0000	0.0000	/	2	0.0000	-0.20000	/	3	0.0000	-0.40000	/	4	0.0000	-0.60000	/
5	0.0000	-0.80000	/	6	0.0000	-1.00000	/	7	0.0000	-1.20000	/	8	0.0000	-1.40000	/
9	0.0000	-1.60000	/	10	0.0000	-1.80000	/	11	0.0000	-2.00000	/	12	0.0000	-2.20000	/
13	0.0000	-2.40000	/	14	0.0000	-2.60000	/	15	0.0000	-2.80000	/	16	0.0000	-3.00000	/
17	0.0000	-3.20000	/	18	0.0000	-3.40000	/	19	0.0000	-3.60000	/	20	0.0000	-3.80000	/
21	0.0000	-4.00000	/	22	0.0000	-4.20000	/	23	0.0000	-4.40000	/	24	0.0000	-4.60000	/
25	0.0000	-4.80000	/	26	0.0000	-5.00000	/	27	0.0000	-5.20000	/	28	0.0000	-5.40000	/
29	0.0000	-5.60000	/	30	0.0000	-5.80000	/	31	0.0000	-6.00000	/	32	0.0000	-6.20000	/
33	0.0000	-6.40000	/	34	0.0000	-6.60000	/	35	0.0000	-6.80000	/	36	0.0000	-7.00000	/
37	0.0000	-7.20000	/	38	0.0000	-7.40000	/	39	0.0000	-7.60000	/	40	0.0000	-7.80000	/
41	0.0000	-8.00000	/	42	0.0000	-8.20000	/	43	0.0000	-8.40000	/	44	0.0000	-8.60000	/
45	0.0000	-8.80000	/	46	0.0000	-9.00000	/	47	0.0000	-9.20000	/	48	0.0000	-9.40000	/
49	0.0000	-9.60000	/	50	0.0000	-9.80000	/	51	0.0000	-10.00000	/	52	0.0000	-10.20000	/
53	0.0000	-10.40000	/	54	0.0000	-10.60000	/	55	0.0000	-10.80000	/	56	0.0000	-11.00000	/
57	0.0000	-11.20000	/	58	0.0000	-11.40000	/	59	0.0000	-11.60000	/	60	0.0000	-11.80000	/
61	0.0000	-12.00000	/	62	0.0000	-12.20000	/	63	0.0000	-12.40000	/	64	0.0000	-12.60000	/
65	0.0000	-12.80000	/	66	0.0000	-13.00000	/	67	0.0000	-13.20000	/	68	0.0000	-13.40000	/
69	0.0000	-13.60000	/	70	0.0000	-13.80000	/	71	0.0000	-14.00000	/	72	0.0000	-14.20000	/
73	0.0000	-14.40000	/	74	0.0000	-14.60000	/	75	0.0000	-14.80000	/	76	0.0000	-15.00000	/
77	0.0000	-15.20000	/	78	0.0000	-15.40000	/	79	0.0000	-15.60000	/	80	0.0000	-15.80000	/
81	0.0000	-16.00000	/	82	0.0000	-16.20000	/	83	0.0000	-16.40000	/	84	0.0000	-16.60000	/
85	0.0000	-16.80000	/	86	0.0000	-17.00000	/	87	0.0000	-17.20000	/	88	0.0000	-17.40000	/
89	0.0000	-17.60000	/	90	0.0000	-17.80000	/	91	0.0000	-18.00000	/	92	0.0000	-18.20000	/
93	0.0000	-18.40000	/	94	0.0000	-18.60000	/	95	0.0000	-18.80000	/	96	0.0000	-19.00000	/
97	0.0000	-19.20000	/	98	0.0000	-19.40000	/	99	0.0000	-19.60000	/	100	0.0000	-19.80000	/
101	0.0000	-20.00000	/	102	0.0000	-20.20000	/	103	0.0000	-20.40000	/	104	0.0000	-20.60000	/
105	0.0000	-20.80000	/	106	0.0000	-21.00000	/	107	0.0000	-21.20000	/				

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+-----+
|          PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                    |
|                               ParatiePlus                          |
|                               Exe Time :28 January 2022   15:34:59  |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L          :
5 107  0  1  0  0  0  0  0  0  0  0  0  0  0  0  4  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  active
 2  active
 3  active

```

```

material set no.  1

prop( 1) angle            0.00000
prop( 2) layer as foreseen 1.00000

```

```

material set no.  2

prop( 1) angle            0.00000
prop( 2) layer as foreseen 2.00000

```

```

material set no.  3

prop( 1) angle            0.00000
prop( 2) layer as foreseen 3.00000

```

```

material set no.  4

prop( 1) angle            0.00000
prop( 2) layer as foreseen 4.00000

```

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000

39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	2	0.2000	0.000	0.000	0.000	1.000
42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	4	0.2000	0.000	0.000	0.000	1.000
73	73	4	0.2000	0.000	0.000	0.000	1.000
74	74	4	0.2000	0.000	0.000	0.000	1.000
75	75	4	0.2000	0.000	0.000	0.000	1.000
76	76	4	0.2000	0.000	0.000	0.000	1.000
77	77	4	0.2000	0.000	0.000	0.000	1.000
78	78	4	0.2000	0.000	0.000	0.000	1.000
79	79	4	0.2000	0.000	0.000	0.000	1.000
80	80	4	0.2000	0.000	0.000	0.000	1.000
81	81	4	0.2000	0.000	0.000	0.000	1.000
82	82	4	0.2000	0.000	0.000	0.000	1.000
83	83	4	0.2000	0.000	0.000	0.000	1.000
84	84	4	0.2000	0.000	0.000	0.000	1.000
85	85	4	0.2000	0.000	0.000	0.000	1.000
86	86	4	0.2000	0.000	0.000	0.000	1.000
87	87	4	0.2000	0.000	0.000	0.000	1.000
88	88	4	0.2000	0.000	0.000	0.000	1.000
89	89	4	0.2000	0.000	0.000	0.000	1.000
90	90	4	0.2000	0.000	0.000	0.000	1.000
91	91	4	0.2000	0.000	0.000	0.000	1.000
92	92	4	0.2000	0.000	0.000	0.000	1.000
93	93	4	0.2000	0.000	0.000	0.000	1.000
94	94	4	0.2000	0.000	0.000	0.000	1.000
95	95	4	0.2000	0.000	0.000	0.000	1.000
96	96	4	0.2000	0.000	0.000	0.000	1.000
97	97	4	0.2000	0.000	0.000	0.000	1.000
98	98	4	0.2000	0.000	0.000	0.000	1.000
99	99	4	0.2000	0.000	0.000	0.000	1.000
100	100	4	0.2000	0.000	0.000	0.000	1.000
101	101	4	0.2000	0.000	0.000	0.000	1.000
102	102	4	0.2000	0.000	0.000	0.000	1.000
103	103	4	0.2000	0.000	0.000	0.000	1.000
104	104	4	0.2000	0.000	0.000	0.000	1.000
105	105	4	0.2000	0.000	0.000	0.000	1.000
106	106	4	0.2000	0.000	0.000	0.000	1.000
107	107	4	0.1000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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```

ELEMENT GROUP NO. 2

```

0_R
 5 107  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  0  0  0  0

```

```

.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

stage status

```

-----
 1 active
 2 active
 3 active

```

```

material set no. 1

prop( 1) angle          180.000
prop( 2) layer as foreseen 1.00000

```

```

material set no. 2

prop( 1) angle          180.000
prop( 2) layer as foreseen 2.00000

```

```

material set no. 3

prop( 1) angle          180.000
prop( 2) layer as foreseen 3.00000

```

```

material set no. 4

prop( 1) angle          180.000
prop( 2) layer as foreseen 4.00000

```

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000

39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	2	0.2000	0.000	0.000	0.000	2.000
42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	4	0.2000	0.000	0.000	0.000	2.000
73	73	4	0.2000	0.000	0.000	0.000	2.000
74	74	4	0.2000	0.000	0.000	0.000	2.000
75	75	4	0.2000	0.000	0.000	0.000	2.000
76	76	4	0.2000	0.000	0.000	0.000	2.000
77	77	4	0.2000	0.000	0.000	0.000	2.000
78	78	4	0.2000	0.000	0.000	0.000	2.000
79	79	4	0.2000	0.000	0.000	0.000	2.000
80	80	4	0.2000	0.000	0.000	0.000	2.000
81	81	4	0.2000	0.000	0.000	0.000	2.000
82	82	4	0.2000	0.000	0.000	0.000	2.000
83	83	4	0.2000	0.000	0.000	0.000	2.000
84	84	4	0.2000	0.000	0.000	0.000	2.000
85	85	4	0.2000	0.000	0.000	0.000	2.000
86	86	4	0.2000	0.000	0.000	0.000	2.000
87	87	4	0.2000	0.000	0.000	0.000	2.000
88	88	4	0.2000	0.000	0.000	0.000	2.000
89	89	4	0.2000	0.000	0.000	0.000	2.000
90	90	4	0.2000	0.000	0.000	0.000	2.000
91	91	4	0.2000	0.000	0.000	0.000	2.000
92	92	4	0.2000	0.000	0.000	0.000	2.000
93	93	4	0.2000	0.000	0.000	0.000	2.000
94	94	4	0.2000	0.000	0.000	0.000	2.000
95	95	4	0.2000	0.000	0.000	0.000	2.000
96	96	4	0.2000	0.000	0.000	0.000	2.000
97	97	4	0.2000	0.000	0.000	0.000	2.000
98	98	4	0.2000	0.000	0.000	0.000	2.000
99	99	4	0.2000	0.000	0.000	0.000	2.000
100	100	4	0.2000	0.000	0.000	0.000	2.000
101	101	4	0.2000	0.000	0.000	0.000	2.000
102	102	4	0.2000	0.000	0.000	0.000	2.000
103	103	4	0.2000	0.000	0.000	0.000	2.000
104	104	4	0.2000	0.000	0.000	0.000	2.000
105	105	4	0.2000	0.000	0.000	0.000	2.000
106	106	4	0.2000	0.000	0.000	0.000	2.000
107	107	4	0.1000	0.000	0.000	0.000	2.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
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```

ELEMENT GROUP NO. 3

```

WallElement_11138
 2 15 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0
.....
.....2D WALL ELEMENT.....
.....

```

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active

```

material set no. 1

```

prop( 1) young modulus      0.333500E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future ..... 0.00000

```

no. of step variable items: 1
step inertia multiplier

```

-----
1 1.000
2 1.000
3 1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
2	2	3	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
3	3	4	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
4	4	5	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
5	5	6	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
6	6	7	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
7	7	8	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
8	8	9	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
9	9	10	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
10	10	11	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
11	11	12	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
12	12	13	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
13	13	14	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
14	14	15	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
15	15	16	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000

ELEMENT GROUP NO. 4

WallElement_New_75260 :

2 91 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....

.....2D WALL ELEMENT.....

.....

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active

```

material set no. 1

```

prop( 1) young modulus      0.333500E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....      0.00000

```

no. of step variable items: 1

step inertia multiplier

```

-----
1 1.000
2 1.000
3 1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	16	17	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
2	17	18	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
3	18	19	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
4	19	20	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
5	20	21	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
6	21	22	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
7	22	23	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
8	23	24	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
9	24	25	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
10	25	26	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
11	26	27	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
12	27	28	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
13	28	29	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
14	29	30	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
15	30	31	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
16	31	32	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
17	32	33	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
18	33	34	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
19	34	35	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
20	35	36	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
21	36	37	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
22	37	38	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
23	38	39	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
24	39	40	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
25	40	41	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
26	41	42	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
27	42	43	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
28	43	44	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
29	44	45	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
30	45	46	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
31	46	47	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
32	47	48	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
33	48	49	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
34	49	50	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
35	50	51	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
36	51	52	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
37	52	53	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
38	53	54	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
39	54	55	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
40	55	56	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
41	56	57	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
42	57	58	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
43	58	59	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
44	59	60	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
45	60	61	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
46	61	62	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
47	62	63	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000

48	63	64	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
49	64	65	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
50	65	66	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
51	66	67	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
52	67	68	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
53	68	69	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
54	69	70	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
55	70	71	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
56	71	72	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
57	72	73	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
58	73	74	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
59	74	75	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
60	75	76	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
61	76	77	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
62	77	78	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
63	78	79	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
64	79	80	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
65	80	81	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
66	81	82	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
67	82	83	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
68	83	84	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
69	84	85	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
70	85	86	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
71	86	87	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
72	87	88	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
73	88	89	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
74	89	90	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
75	90	91	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
76	91	92	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
77	92	93	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
78	93	94	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
79	94	95	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
80	95	96	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
81	96	97	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
82	97	98	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
83	98	99	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
84	99	100	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
85	100	101	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
86	101	102	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
87	102	103	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
88	103	104	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
89	104	105	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
90	105	106	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
91	106	107	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000


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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:34:59          |
+-----+
```

```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
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```

L O A D D A T A

```

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

```

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

```

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

```

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

```

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

```

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
+-----+

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```

L O A D      B A L A N C E

STEP  1  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP  1  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F      0.0000000

STEP  2  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP  2  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F      0.0000000

STEP  3  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP  3  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F      0.0000000

```

LOAD INPUT SECTION COMPLETED

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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```

```
NO. OF LAYERS ..... 4
NO. OF DATA PER LAYER..... 160
```

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                                                                                               |
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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 10.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= 15.000  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 19.000  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 9.0000  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 35.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.26600  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 9.7350  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 40000.  (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 40000.  (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61&lt;U-TZALPH&gt;= 0.50000  (BOTH WALLS)
ITEM NO. 82&lt;D-NATURE&gt;= 1.0000  (BOTH WALLS)
ITEM NO. 83&lt;D-LEVEL  &gt;= 0.0000  (BOTH WALLS)
ITEM NO. 89&lt;D-FRICT  &gt;= 35.000  (BOTH WALLS)
ITEM NO. 90&lt;D-KA     &gt;= 0.23500  WALL NO.      1
ITEM NO. 91&lt;D-KP     &gt;= 5.8790  WALL NO.      1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000  (BOTH WALLS)

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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 11.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= -4.0000  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 19.000  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 9.0000  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  8&lt;U-COHE   &gt;= 2.0000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 25.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.68900  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 4.3510  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 30000.  (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 90000.  (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61&lt;U-TZALPH&gt;= 0.50000  (BOTH WALLS)
ITEM NO. 82&lt;D-NATURE&gt;= 1.0000  (BOTH WALLS)
ITEM NO. 83&lt;D-LEVEL  &gt;= 0.0000  (BOTH WALLS)
ITEM NO. 88&lt;D-COHE   &gt;= 2.0000  (BOTH WALLS)
ITEM NO. 89&lt;D-FRICT  &gt;= 25.000  (BOTH WALLS)
ITEM NO. 90&lt;D-KA     &gt;= 0.32200  WALL NO.      1
ITEM NO. 91&lt;D-KP     &gt;= 2.3800  WALL NO.      1
ITEM NO. 107&lt;D-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000  (BOTH WALLS)

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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

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ITEM NO.  1&lt;NAME      &gt;= 12.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= -12.120  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD   &gt;= 20.500  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB   &gt;= 10.500  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  8&lt;U-COHE   &gt;= 10.000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT  &gt;= 27.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA     &gt;= 0.55700  WALL NO.      1
ITEM NO. 11&lt;U-KP     &gt;= 4.7930  WALL NO.      1
ITEM NO. 12&lt;K0-NC    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP     &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR      &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL    &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC      &gt;= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18&lt;EUR      &gt;= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27&lt;U-PERM   &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58&lt;U-TZKZ   &gt;= 10000.  (BOTH WALLS)

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ITEM NO. 60<U-TZDELT>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.00000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.00000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.0000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6410 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELT>= 25.0000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 1

ITEM NO. 1<NAME >= 13.0000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.00000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -14.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.00000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49600 WALL NO. 1
ITEM NO. 11<U-KP >= 4.4840 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.13500E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.40500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.00000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.00000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6870 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO. 1<NAME >= 10.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.00000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 15.000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.00000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.26600 WALL NO. 1
ITEM NO. 11<U-KP >= 9.7350 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.00000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.23500 WALL NO. 1
ITEM NO. 91<D-KP >= 5.8790 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 2

ITEM NO. 1<NAME >= 11.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.00000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -4.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.00000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.68900 WALL NO. 1
ITEM NO. 11<U-KP >= 4.3510 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)

ITEM NO. 18<EUR >= 90000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32200 WALL NO. 1
ITEM NO. 91<D-KP >= 2.3800 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -12.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.55700 WALL NO. 1
ITEM NO. 11<U-KP >= 4.7930 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6410 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 2

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -14.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49600 WALL NO. 1
ITEM NO. 11<U-KP >= 4.4840 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.13500E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.40500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6870 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 10.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 15.000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.26600 WALL NO. 1
ITEM NO. 11<U-KP >= 9.7350 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)

ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.23500 WALL NO. 1
ITEM NO. 91<D-KP >= 5.8790 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO. 1<NAME >= 11.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -4.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.68900 WALL NO. 1
ITEM NO. 11<U-KP >= 4.3510 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32200 WALL NO. 1
ITEM NO. 91<D-KP >= 2.3800 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -12.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.55700 WALL NO. 1
ITEM NO. 11<U-KP >= 4.7930 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6410 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 3

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -14.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49600 WALL NO. 1
ITEM NO. 11<U-KP >= 4.4840 WALL NO. 1

ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.00000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.00000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.00000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.00000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 50.000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 27.000	(BOTH WALLS)	
ITEM NO.	90	D-KA	>= 0.29800	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.6870	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	>= 0.50000	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 12 VALUES

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:34:59                            |
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PHASE DESCRIPTORS

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STEP NO.      1 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30
Z-PC           0.000            0.000
Z-EXCAVATION   -4.000            0.000
Z-WATER_TABLE  -5.887            -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000            0.000
ZQ             0.000            0.000
DZW_OF_THE_WATER_TABLE  0.1931            0.000
QS_ON_THE_EXCAVATION_SIDE  0.000            0.000
ZQS           0.000            -0.9990E+30
ZCUT          0.000            0.000
BALANCE LEVEL FOR PORE PRESSURES  -21.20            -21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)  0.000            0.000
PORE_UPDATE_FLAG  0.000            0.000
PORE_TAB._FLAG (gt.0= use tabs)  0.000            0.000
lateral thrusts reduction elevatio  0.000            0.000
Downhill reduction factor for effe  0.000            0.000
Downhill reduction factor for pore  0.000            0.000
Uphill reduction factor for effect  0.000            0.000
Uphill reduction factor for pore p  0.000            0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]    0.000            0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]    0.000            0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]   0.000            0.000
UPHILL BETA ANGLE (SLOPE) [deg]     0.000            0.000
UPHILL DELTA/PHI RATIO              0.000            0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]   0.000            0.000
DOWNHILL DELTA/PHI RATIO            0.000            0.000
DYN.WATER BEHAVIOUR                0.000            0.000
Excess pore pressure RATIO Ru       0.000            0.000
SEISMIC PRESSURE LOWER VALUE        0.000            0.000
SEISMIC PRESSURE UPPER VALUE        0.000            0.000
SEISMIC PRESSURE LOWER LEVEL        0.000            0.000
SEISMIC PRESSURE UPPER LEVEL        0.000            0.000

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=====end of step 1

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STEP NO.      2 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30
Z-PC           0.000            0.000
Z-EXCAVATION   -4.000            0.000
Z-WATER_TABLE  -5.887            -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000            0.000
ZQ             0.000            0.000
DZW_OF_THE_WATER_TABLE  0.1931            0.000
QS_ON_THE_EXCAVATION_SIDE  0.000            0.000
ZQS           0.000            -0.9990E+30
ZCUT          0.000            0.000
BALANCE LEVEL FOR PORE PRESSURES  -21.20            -21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)  0.000            0.000
PORE_UPDATE_FLAG  0.000            0.000
PORE_TAB._FLAG (gt.0= use tabs)  0.000            0.000
lateral thrusts reduction elevatio  0.000            0.000
Downhill reduction factor for effe  0.000            0.000
Downhill reduction factor for pore  0.000            0.000
Uphill reduction factor for effect  0.000            0.000
Uphill reduction factor for pore p  0.000            0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]    0.000            0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]    0.000            0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]   0.000            0.000
UPHILL BETA ANGLE (SLOPE) [deg]     0.000            0.000
UPHILL DELTA/PHI RATIO              0.000            0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]   0.000            0.000
DOWNHILL DELTA/PHI RATIO            0.000            0.000
DYN.WATER BEHAVIOUR                0.000            0.000
Excess pore pressure RATIO Ru       0.000            0.000
SEISMIC PRESSURE LOWER VALUE        0.000            0.000
SEISMIC PRESSURE UPPER VALUE        0.000            0.000
SEISMIC PRESSURE LOWER LEVEL        0.000            0.000
SEISMIC PRESSURE UPPER LEVEL        0.000            0.000

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=====end of step 2

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STEP NO.      3 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30

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Z-PC	0.000	0.000
Z-EXCAVATION	-4.000	0.000
Z-WATER_TABLE	-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

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=====end of step 3

LEFT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:34:59                            |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 1.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 11.40000000000000
 FOUNDATION WIDTH (B) 9.900000000000000
 ZETA-F..... 4.700000000000000
 Q-F 46.15400000000000
 BETA 45.00000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 5874

NO. OF D.P.W FOR THIS AREA 16376
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1773E+06 RIMNOR= 0.000
 RENORM= 5636. REMNOR= 0.000 RATIO =0.1783 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.08 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1773E+06 RDR = 0.000
 RATIO=0.1783 RATIO= 0.000
 MAX UN= 8.383 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1773E+06 RIMNOR= 0.000
 RENORM= 3600. REMNOR=0.4277E-17 RATIO =0.1425 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.08 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1773E+06 RDR = 0.000
 RATIO=0.1425 RATIO= 0.000
 MAX UN= 19.45 IEQ= 123 NODE 62 DOF 1 Y-DISPL.F
 MIN UN=-.4515 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1773E+06 RIMNOR= 0.000
 RENORM= 1456. REMNOR=0.7514E-16 RATIO =0.9063E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.08 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1773E+06 RDR = 0.000
 RATIO=0.9063E-01 RATIO= 0.000
 MAX UN= 18.82 IEQ= 147 NODE 74 DOF 1 Y-DISPL.F
 MIN UN=-.2400E-07 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1773E+06 RIMNOR= 0.000
 RENORM= 38.50 REMNOR=0.1686E-16 RATIO =0.1474E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.08 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1773E+06 RDR = 0.000
 RATIO=0.1474E-01 RATIO= 0.000
 MAX UN= 4.873 IEQ= 165 NODE 83 DOF 1 Y-DISPL.F
 MIN UN=-.4324 IEQ= 191 NODE 96 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1773E+06 RIMNOR= 0.000
 RENORM=0.5287E-02 REMNOR=0.1646E-16 RATIO =0.1727E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.08 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000

RDT =0.1773E+06 RDR = 0.000
RATIOT=0.1727E-03 RATIO= 0.000
MAX UN=0.2159E-07 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
MIN UN=-.5910E-01 IEQ= 197 NODE 99 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1773E+06 RIMNOR= 0.000
RENORM=0.3057E-04 REMNOR=0.1279E-16 RATIO =0.1313E-04 TOLER =0.1000E-03 CONVERGED !
RFMAX = 58.08 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1773E+06 RDR = 0.000
RATIOT=0.1313E-04 RATIO= 0.000
MAX UN=0.2343E-02 IEQ= 169 NODE 85 DOF 1 Y-DISPL.F
MIN UN=-.1681E-07 IEQ= 83 NODE 42 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

75 1.6000743E-03 -6.2988615E-04
76 1.4769920E-03 -6.0096502E-04
77 1.3596729E-03 -5.7227402E-04
78 1.2480588E-03 -5.4393592E-04
79 1.1420673E-03 -5.1606750E-04
80 1.0415931E-03 -4.8877983E-04
81 9.4650957E-04 -4.6217853E-04
82 8.5666924E-04 -4.3636412E-04
83 7.7190509E-04 -4.1143221E-04
84 6.9203145E-04 -3.8747383E-04
85 6.1684488E-04 -3.6457563E-04
86 5.4612501E-04 -3.4282029E-04
87 4.7963535E-04 -3.2228620E-04
88 4.1712461E-04 -3.0304099E-04
89 3.5832961E-04 -2.8513590E-04
90 3.0297583E-04 -2.6860598E-04
91 2.5079121E-04 -2.5347425E-04
92 2.0149246E-04 -2.3974752E-04
93 1.5479888E-04 -2.2742063E-04
94 1.1043212E-04 -2.1647513E-04
95 6.8118938E-05 -2.0687803E-04
96 2.7594188E-05 -1.9858168E-04
97 -1.1396362E-05 -1.9152472E-04
98 -4.9093478E-05 -1.8563441E-04
99 -8.5722413E-05 -1.8082840E-04
100 -1.2149105E-04 -1.7701557E-04
101 -1.5658826E-04 -1.7409701E-04
102 -1.9118238E-04 -1.7196635E-04
103 -2.2542145E-04 -1.7050984E-04
104 -2.5942493E-04 -1.6960681E-04
105 -2.9329254E-04 -1.6912928E-04
106 -3.2709602E-04 -1.6894240E-04
107 -3.6087773E-04 -1.6890433E-04

1.000	1.000	53.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	11.15	-1.3654E-02	85.71	55.73	85.71	55.73	ACTIVE	0.000	-4.400	0.000
1.000	1.000	55.73	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	11.68	-1.3362E-02	89.60	58.41	89.60	58.41	ACTIVE	0.000	-4.600	0.000
1.000	1.000	58.41	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	12.22	-1.3071E-02	93.48	61.09	93.48	61.09	ACTIVE	0.000	-4.800	0.000
1.000	1.000	61.09	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	12.75	-1.2780E-02	97.37	63.77	97.37	63.77	ACTIVE	0.000	-5.000	0.000
1.000	1.000	63.77	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	13.29	-1.2491E-02	101.3	66.44	101.3	66.44	ACTIVE	0.000	-5.200	0.000
1.000	1.000	66.44	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	13.82	-1.2203E-02	105.1	69.12	105.1	69.12	ACTIVE	0.000	-5.400	0.000
1.000	1.000	69.12	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	14.36	-1.1916E-02	109.0	71.80	109.0	71.80	ACTIVE	0.000	-5.600	0.000
1.000	1.000	71.80	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	14.90	-1.1630E-02	112.9	74.48	112.9	74.48	ACTIVE	0.000	-5.800	0.000
1.000	1.000	74.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	15.50	-1.1346E-02	115.7	76.38	115.7	76.38	ACTIVE	0.000	-6.000	1.127
1.000	1.000	77.50	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	16.16	-1.1063E-02	117.6	77.68	117.6	77.68	ACTIVE	0.000	-6.200	3.114
1.000	1.000	80.80	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	16.82	-1.0782E-02	119.5	78.99	119.5	78.99	ACTIVE	0.000	-6.400	5.101
1.000	1.000	84.09	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	17.48	-1.0502E-02	121.4	80.29	121.4	80.29	ACTIVE	0.000	-6.600	7.089
1.000	1.000	87.38	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	18.13	-1.0225E-02	123.2	81.60	123.2	81.60	ACTIVE	0.000	-6.800	9.076
1.000	1.000	90.67	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	18.79	-9.9495E-03	125.1	82.90	125.1	82.90	ACTIVE	0.000	-7.000	11.06
1.000	1.000	93.97	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	19.45	-9.6761E-03	127.0	84.21	127.0	84.21	ACTIVE	0.000	-7.200	13.05
1.000	1.000	97.26	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	20.11	-9.4048E-03	128.9	85.51	128.9	85.51	ACTIVE	0.000	-7.400	15.04
1.000	1.000	100.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	20.77	-9.1356E-03	130.8	86.81	130.8	86.81	ACTIVE	0.000	-7.600	17.03
1.000	1.000	103.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	21.42	-8.8687E-03	132.7	88.11	132.7	88.11	ACTIVE	0.000	-7.800	19.01
1.000	1.000	107.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	22.08	-8.6041E-03	134.6	89.41	134.6	89.41	ACTIVE	0.000	-8.000	21.00
1.000	1.000	110.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.74	-8.3419E-03	136.5	90.71	136.5	90.71	ACTIVE	0.000	-8.200	22.99
1.000	1.000	113.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	23.40	-8.0822E-03	138.4	92.01	138.4	92.01	ACTIVE	0.000	-8.400	24.97
1.000	1.000	117.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	24.05	-7.8249E-03	140.2	93.31	140.2	93.31	ACTIVE	0.000	-8.600	26.96
1.000	1.000	120.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	24.71	-7.5702E-03	142.1	94.61	142.1	94.61	ACTIVE	0.000	-8.800	28.95
1.000	1.000	123.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	25.40	-7.3181E-03	144.2	96.05	144.2	96.05	ACTIVE	0.000	-9.000	30.94
1.000	1.000	127.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	26.09	-7.0688E-03	146.3	97.51	146.3	97.51	ACTIVE	0.000	-9.200	32.92
1.000	1.000	130.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	26.77	-6.8222E-03	148.4	98.96	148.4	98.96	ACTIVE	0.000	-9.400	34.91
1.000	1.000	133.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	27.46	-6.5784E-03	150.5	100.4	150.5	100.4	ACTIVE	0.000	-9.600	36.90
1.000	1.000	137.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	28.15	-6.3375E-03	152.6	101.8	152.6	101.8	ACTIVE	0.000	-9.800	38.89
1.000	1.000	140.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	28.83	-6.0996E-03	154.7	103.3	154.7	103.3	ACTIVE	0.000	-10.00	40.87
1.000	1.000	144.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	29.51	-5.8647E-03	156.8	104.7	156.8	104.7	ACTIVE	0.000	-10.20	42.86
1.000	1.000	147.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	30.20	-5.6331E-03	158.9	106.1	158.9	106.1	ACTIVE	0.000	-10.40	44.85
1.000	1.000	151.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.88	-5.4046E-03	160.9	107.6	160.9	107.6	ACTIVE	0.000	-10.60	46.83
1.000	1.000	154.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.56	-5.1795E-03	163.0	109.0	163.0	109.0	ACTIVE	0.000	-10.80	48.82
1.000	1.000	157.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	32.24	-4.9579E-03	165.1	110.4	165.1	110.4	ACTIVE	0.000	-11.00	50.81
1.000	1.000	161.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	32.92	-4.7399E-03	167.1	111.8	167.1	111.8	ACTIVE	0.000	-11.20	52.80
1.000	1.000	164.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	33.60	-4.5256E-03	169.2	113.2	169.2	113.2	ACTIVE	0.000	-11.40	54.78
1.000	1.000	168.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	34.28	-4.3152E-03	171.2	114.6	171.2	114.6	ACTIVE	0.000	-11.60	56.77
1.000	1.000	171.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	34.96	-4.1087E-03	173.2	116.0	173.2	116.0	ACTIVE	0.000	-11.80	58.76
1.000	1.000	174.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	35.64	-3.9065E-03	175.3	117.4	175.3	117.4	ACTIVE	0.000	-12.00	60.75
1.000	1.000	178.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.33	-3.7086E-03	177.4	83.90	177.4	88.76	ACTIVE	0.000	-12.20	62.73
1.000	1.000	146.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.98	-3.5153E-03	179.8	85.20	179.8	89.76	ACTIVE	0.000	-12.40	64.72
1.000	1.000	149.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	30.64	-3.3267E-03	182.1	86.49	182.1	90.76	ACTIVE	0.000	-12.60	66.71
1.000	1.000	153.2	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	31.30	-3.1430E-03	184.4	87.78	184.4	91.77	ACTIVE	0.000	-12.80	68.70
1.000	1.000	156.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	31.95	-2.9643E-03	186.7	89.07	186.7	92.77	ACTIVE	0.000	-13.00	70.68
1.000	1.000	159.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	32.61	-2.7907E-03	189.0	90.36	189.0	93.77	ACTIVE	0.000	-13.20	72.67
1.000	1.000	163.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	33.26	-2.6225E-03	191.3	91.65	191.3	94.78	ACTIVE	0.000	-13.40	74.66
1.000	1.000	166.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	33.92	-2.4596E-03	193.6	92.93	193.6	95.78	ACTIVE	0.000	-13.60	76.64
1.000	1.000	169.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	34.57	-2.3021E-03	195.9	94.21	195.9	96.79	ACTIVE	0.000	-13.80	78.63
1.000	1.000	172.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	35.22	-2.1503E-03	198.2	95.49	198.2	97.80	ACTIVE	0.000	-14.00	80.62
1.000	1.000	176.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	22.34	-2.0041E-03	200.7	29.12	200.7	98.88	ACTIVE	0.000	-14.20	82.61
1.000	1.000	111.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	23.01	-1.8636E-03	203.4	30.45	203.4	100.1	ACTIVE	0.000	-14.40	84.59
1.000	1.000	115.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	23.67	-1.7290E-03	206.1	31.79	206.1	101.3	ACTIVE	0.000	-14.60	86.58
1.000	1.000	118.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	24.34	-1.6001E-03	208.8	33.12	208.8	102.5	UL-RL 1.2392E+05		-14.80	88.57
1.000	1.000	121.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	25.00	-1.4770E-03	211.4	34.45	211.4	103.7	UL-RL 1.2392E+05		-15.00	90.56
1.000	1.000	125.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	25.66	-1.3597E-03	214.1	35.78	214.1	104.9	UL-RL 1.2392E+05		-15.20	92.54
1.000	1.000	128.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	26.33	-1.2481E-03	216.8	37.11	216.8	106.1	UL-RL 1.2392E+05		-15.40	94.53
1.000	1.000	131.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.99	-1.1421E-03	219.5	38.44	219.5	107.3	UL-RL 1.2392E+05		-15.60	96.52
1.000	1.000	135.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.65	-1.0416E-03	222.2	39.76	222.2	108.6	UL-RL 1.2392E+05		-15.80	98.50
1.000	1.000	138.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	28.32	-9.4651E-04	224.8	41.09	224.8	109.8	UL-RL 1.2392E+05		-16.00	100.5
1.000	1.000	141.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.98	-8.5667E-04	227.5	42.41	227.5	111.0	UL-RL 1.2392E+05		-16.20	102.5
1.000	1.000	144.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.64	-7.7191E-04	230.2	43.73	230.2	112.2	UL-RL 1.2392E+05		-16.40	104.5
1.000	1.000	148.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	30.30	-6.9203E-04	232.8	45.06	232.8	113.4	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	151.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.94	-6.1684E-04	235.3	46.27	235.3	114.6	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	154.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.72	-5.4613E-04	237.7	48.15	237.7	115.8	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	158.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	34.00	-4.7964E-04	240.2	57.60	240.2	117.0	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	170.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	36.19	-4.1712E-04	242.6	66.56	242.6	118.3	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	181.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.29	-3.5833E-04	245.1	75.07	245.1	119.5	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	191.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.30	-3.0298E-04	247.5	83.14	247.5	120.7	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	201.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	42.24	-2.5079E-04	250.0	90.82	250.0	121.9	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	211.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	44.10	-2.0149E-04	252.4	98.15	252.4	123.1	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	220.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.90	-1.5480E-04	254.9	105.2	254.9	124.3	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	229.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.64	-1.1043E-04	257.3	111.9	257.3	125.6	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	238.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.33	-6.8119E-05	259.8	118.3	259.8	126.8	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	246.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.88	-2.7594E-05	262.2	124.1	262.2	128.2	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	254.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	52.06	1.1396E-05	264.7	128.0	264.7	130.5	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	260.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	53.23	4.9093E-05	267.1	131.9	267.1	132.8	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	266.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	54.24	8.5722E-05	269.6	134.9	269.6	135.3	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	271.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	55.19	1.2149E-04	272.1	137.7	272.1	138.0	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	276.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	56.15	1.5659E-04	274.5	140.5	274.5	140.6	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	280.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	57.09	1.9118E-04	277.0	143.2	277.0	143.2	V-C	4.1306E+04	-20.20	142.2
1.000	1.000	285.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	58.01	2.2542E-04	279.4	145.9	279.4	145.9	V-C	4.1306E+04	-20.40	144.2
1.000	1.000	290.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.94	2.5942E-04	281.9	148.5	281.9	148.5	V-C	4.1306E+04	-20.60	146.2
1.000	1.000	294.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.86	2.9329E-04	284.3	151.1	284.3	151.1	V-C	4.1306E+04	-20.80	148.2
1.000	1.000	299.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.78	3.2710E-04	286.8	153.7	286.8	153.7	V-C	4.1306E+04	-21.00	150.2
1.000	1.000	303.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.85	3.6088E-04	289.3	156.3	289.3	156.3	V-C	4.1306E+04	-21.20	152.2
1.000	1.000	308.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 1.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	1.234	1.4239E-02	0.000	6.171	0.000	6.171	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	6.171	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	3.043	1.3946E-02	3.800	15.21	3.800	15.21	PASSIVE	0.000	-4.200	0.000	
1.000	1.000	15.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.852	1.3654E-02	7.600	24.26	7.600	24.26	PASSIVE	0.000	-4.400	0.000	
1.000	1.000	24.26	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.661	1.3362E-02	11.40	33.30	11.40	33.30	PASSIVE	0.000	-4.600	0.000	
1.000	1.000	33.30	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.469	1.3071E-02	15.20	42.35	15.20	42.35	PASSIVE	0.000	-4.800	0.000	
1.000	1.000	42.35	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.28	1.2780E-02	19.00	51.39	19.00	51.39	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	51.39	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.09	1.2491E-02	22.80	60.43	22.80	60.43	PASSIVE	0.000	-5.200	0.000	
1.000	1.000	60.43	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.90	1.2203E-02	26.60	69.48	26.60	69.48	PASSIVE	0.000	-5.400	0.000	
1.000	1.000	69.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.70	1.1916E-02	30.40	78.52	30.40	78.52	PASSIVE	0.000	-5.600	0.000
1.000	1.000	78.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	17.51	1.1630E-02	34.20	87.57	34.20	87.57	PASSIVE	0.000	-5.800	0.000
1.000	1.000	87.57	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	19.32	1.1346E-02	38.00	96.61	38.00	96.61	PASSIVE	0.000	-6.000	0.000
1.000	1.000	96.61	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	20.80	1.1063E-02	40.59	102.8	40.59	102.8	PASSIVE	0.000	-6.200	1.211
1.000	1.000	104.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.46	1.0782E-02	42.38	104.1	42.38	104.1	V-C	7167.	-6.400	3.223
1.000	1.000	107.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	21.63	1.0502E-02	44.16	102.9	44.16	102.9	V-C	7167.	-6.600	5.236
1.000	1.000	108.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	21.81	1.0225E-02	45.95	101.8	45.95	101.8	V-C	7167.	-6.800	7.249
1.000	1.000	109.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	21.99	9.9495E-03	47.74	100.7	47.74	100.7	V-C	7167.	-7.000	9.261
1.000	1.000	109.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	22.17	9.6761E-03	49.53	99.56	49.53	99.56	V-C	7167.	-7.200	11.27
1.000	1.000	110.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	22.35	9.4048E-03	51.31	98.47	51.31	98.47	V-C	7167.	-7.400	13.29
1.000	1.000	111.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	22.54	9.1356E-03	53.10	97.39	53.10	97.39	V-C	7167.	-7.600	15.30
1.000	1.000	112.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	22.73	8.8687E-03	54.89	96.33	54.89	96.33	V-C	7167.	-7.800	17.31
1.000	1.000	113.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	22.92	8.6041E-03	56.68	95.28	56.68	95.28	V-C	7167.	-8.000	19.32
1.000	1.000	114.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	23.12	8.3419E-03	58.46	94.24	58.46	94.24	V-C	7167.	-8.200	21.34
1.000	1.000	115.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	23.32	8.0822E-03	60.25	93.23	60.25	93.23	V-C	7167.	-8.400	23.35
1.000	1.000	116.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.52	7.8249E-03	62.04	92.23	62.04	92.23	V-C	7167.	-8.600	25.36
1.000	1.000	117.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	23.72	7.5702E-03	63.82	91.24	63.82	91.24	V-C	7167.	-8.800	27.38
1.000	1.000	118.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	23.93	7.3181E-03	65.61	90.28	65.61	90.28	V-C	7167.	-9.000	29.39
1.000	1.000	119.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	24.15	7.0688E-03	67.40	89.33	67.40	89.33	V-C	7167.	-9.200	31.40
1.000	1.000	120.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	24.36	6.8222E-03	69.19	88.41	69.19	88.41	V-C	7167.	-9.400	33.41
1.000	1.000	121.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	24.59	6.5784E-03	70.97	87.50	70.97	87.50	V-C	7167.	-9.600	35.43
1.000	1.000	122.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	24.81	6.3375E-03	72.76	86.61	72.76	86.61	V-C	7167.	-9.800	37.44
1.000	1.000	124.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	25.04	6.0996E-03	74.55	85.75	74.55	85.75	V-C	7167.	-10.000	39.45
1.000	1.000	125.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	25.27	5.8647E-03	76.34	84.90	76.34	84.90	V-C	7167.	-10.200	41.46
1.000	1.000	126.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	25.51	5.6331E-03	78.12	84.08	78.12	84.08	V-C	7167.	-10.400	43.48
1.000	1.000	127.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	25.76	5.4046E-03	79.91	83.29	79.91	83.29	V-C	7167.	-10.600	45.49
1.000	1.000	128.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	26.00	5.1795E-03	81.70	82.51	81.70	82.51	V-C	7167.	-10.800	47.50
1.000	1.000	130.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	26.26	4.9579E-03	83.48	81.76	83.48	81.76	V-C	7167.	-11.000	49.52
1.000	1.000	131.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	26.51	4.7399E-03	85.27	81.04	85.27	81.04	V-C	7167.	-11.200	51.53
1.000	1.000	132.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	26.78	4.5256E-03	87.06	80.34	87.06	80.34	V-C	7167.	-11.400	53.54
1.000	1.000	133.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	27.05	4.3152E-03	88.85	79.67	88.85	79.67	V-C	7167.	-11.600	55.55
1.000	1.000	135.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	27.32	4.1087E-03	90.63	79.03	90.63	79.03	V-C 7167.	-11.80	57.57	
1.000	1.000	136.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	27.60	3.9065E-03	92.42	78.42	92.42	78.42	V-C 7167.	-12.00	59.58	
1.000	1.000	138.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	40.14	3.7086E-03	94.33	139.1	94.33	139.1	V-C 2.3669E+04	-12.20	61.59	
1.000	1.000	200.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.83	3.5153E-03	96.42	135.5	96.42	135.5	V-C 2.3669E+04	-12.40	63.60	
1.000	1.000	199.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	39.53	3.3267E-03	98.50	132.0	98.50	132.0	V-C 2.3669E+04	-12.60	65.62	
1.000	1.000	197.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	39.26	3.1430E-03	100.6	128.7	100.6	128.7	V-C 2.3669E+04	-12.80	67.63	
1.000	1.000	196.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	39.02	2.9643E-03	102.7	125.5	102.7	125.5	V-C 2.3669E+04	-13.00	69.64	
1.000	1.000	195.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.80	2.7907E-03	104.8	122.3	104.8	122.3	V-C 2.3669E+04	-13.20	71.65	
1.000	1.000	194.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	38.60	2.6225E-03	106.9	119.3	106.9	119.3	V-C 2.3669E+04	-13.40	73.67	
1.000	1.000	193.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	38.43	2.4596E-03	108.9	116.5	108.9	116.5	V-C 2.3669E+04	-13.60	75.68	
1.000	1.000	192.2	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.29	2.3021E-03	111.0	113.7	111.0	113.7	V-C 2.3669E+04	-13.80	77.69	
1.000	1.000	191.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	38.17	2.1503E-03	113.1	111.1	113.1	111.1	V-C 2.3669E+04	-14.00	79.71	
1.000	1.000	190.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	41.04	2.0041E-03	115.4	123.5	115.4	123.5	V-C 3.1023E+04	-14.20	81.72	
1.000	1.000	205.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	40.81	1.8636E-03	117.8	120.3	117.8	120.3	V-C 3.1023E+04	-14.40	83.73	
1.000	1.000	204.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	40.62	1.7290E-03	120.3	117.4	120.3	117.4	V-C 3.1023E+04	-14.60	85.74	
1.000	1.000	203.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	40.46	1.6001E-03	122.8	114.5	122.8	114.5	UL-RL 9.3069E+04	-14.80	87.76	
1.000	1.000	202.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.34	1.4770E-03	125.3	111.9	125.3	111.9	UL-RL 9.3069E+04	-15.00	89.77	
1.000	1.000	201.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	40.25	1.3597E-03	127.8	109.5	127.8	109.5	UL-RL 9.3069E+04	-15.20	91.78	
1.000	1.000	201.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	40.20	1.2481E-03	130.3	107.2	130.3	107.2	UL-RL 9.3069E+04	-15.40	93.79	
1.000	1.000	201.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	40.19	1.1421E-03	132.8	105.1	132.8	105.1	UL-RL 9.3069E+04	-15.60	95.81	
1.000	1.000	200.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	40.20	1.0416E-03	135.3	103.2	135.3	103.2	UL-RL 9.3069E+04	-15.80	97.82	
1.000	1.000	201.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	40.26	9.4651E-04	137.7	101.5	137.7	101.5	UL-RL 9.3069E+04	-16.00	99.83	
1.000	1.000	201.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	40.34	8.5667E-04	140.2	99.86	140.2	99.87	UL-RL 9.3069E+04	-16.20	101.8	
1.000	1.000	201.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.46	7.7191E-04	142.7	98.43	142.7	98.44	UL-RL 9.3069E+04	-16.40	103.9	
1.000	1.000	202.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	40.61	6.9203E-04	145.2	97.16	145.2	97.16	UL-RL 9.3069E+04	-16.60	105.9	
1.000	1.000	203.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	40.78	6.1684E-04	147.7	96.02	147.7	96.03	UL-RL 9.3069E+04	-16.80	107.9	
1.000	1.000	203.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	40.99	5.4613E-04	150.2	95.03	150.2	95.04	UL-RL 9.3069E+04	-17.00	109.9	
1.000	1.000	204.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	41.22	4.7964E-04	152.7	94.17	152.7	94.18	UL-RL 9.3069E+04	-17.20	111.9	
1.000	1.000	206.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	41.47	4.1712E-04	155.2	93.43	155.2	93.44	UL-RL 9.3069E+04	-17.40	113.9	
1.000	1.000	207.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	41.75	3.5833E-04	157.6	92.81	157.6	92.82	UL-RL 9.3069E+04	-17.60	115.9	
1.000	1.000	208.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	42.05	3.0298E-04	160.1	92.29	160.1	92.30	UL-RL 9.3069E+04	-17.80	117.9	

1.000	1.000	210.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.37	2.5079E-04	162.6	91.88	162.6	91.89	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	211.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.71	2.0149E-04	165.1	91.55	165.1	91.56	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.80	1.5480E-04	167.6	90.00	167.6	91.97	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	214.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.70	1.1043E-04	170.1	87.53	170.1	92.96	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.64	6.8119E-05	172.6	85.21	172.6	93.95	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	213.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.61	2.7594E-05	175.1	83.03	175.1	94.97	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	213.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.60	-1.1396E-05	177.5	80.97	177.5	95.99	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	213.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.61	-4.9093E-05	180.0	79.02	180.0	97.03	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	213.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.64	-8.5722E-05	182.5	77.14	182.5	98.07	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	213.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.68	-1.2149E-04	185.0	75.33	185.0	99.13	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	213.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.73	-1.5659E-04	187.5	73.58	187.5	100.2	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	213.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.79	-1.9118E-04	190.0	71.86	190.0	101.2	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	214.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.86	-2.2542E-04	192.5	70.17	192.5	102.3	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	214.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.93	-2.5942E-04	195.0	68.51	195.0	103.4	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	214.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	43.00	-2.9329E-04	197.4	66.85	197.4	104.4	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	215.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	43.07	-3.2710E-04	199.9	65.20	199.9	105.5	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	215.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.57	-3.6088E-04	202.4	63.55	202.4	106.6	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	215.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.24659E-02	-1.24659E-02	-2.11572E-10	2.49317E-03
2	0.24239	-0.24239	-2.49317E-03	5.09712E-02
3	0.67746	-0.67746	-5.09712E-02	0.18646
4	1.3178	-1.3178	-0.18646	0.45003
5	2.1636	-2.1636	-0.45003	0.88275
6	3.2150	-3.2150	-0.88275	1.5257
7	4.4720	-4.4720	-1.5257	2.4201
8	5.9349	-5.9349	-2.4201	3.6071
9	7.6037	-7.6037	-3.6071	5.1279
10	9.4785	-9.4785	-5.1279	7.0236
11	11.560	-11.560	-7.0236	9.3355
12	13.847	-13.847	-9.3355	12.105
13	16.340	-16.340	-12.105	15.373
14	19.040	-19.040	-15.373	19.181
15	21.947	-21.947	-19.181	23.570


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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP   91
C U R R E N T   T I M E   I S   1.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	25.060	-25.060	-23.570	28.582
2	28.379	-28.379	-28.582	34.258
3	31.905	-31.905	-34.258	40.639
4	35.638	-35.638	-40.639	47.767
5	39.578	-39.578	-47.767	55.682
6	48.419	-48.419	-55.682	65.366
7	55.987	-55.987	-65.366	76.564
8	62.283	-62.283	-76.564	89.020
9	67.304	-67.304	-89.020	102.48
10	71.053	-71.053	-102.48	116.69
11	73.528	-73.528	-116.69	131.40
12	74.730	-74.730	-131.40	146.34
13	74.659	-74.659	-146.34	161.27
14	73.314	-73.314	-161.27	175.94
15	70.696	-70.696	-175.94	190.08
16	66.874	-66.874	-190.08	203.45
17	62.237	-62.237	-203.45	215.90
18	57.597	-57.597	-215.90	227.42
19	53.441	-53.441	-227.42	238.11
20	49.768	-49.768	-238.11	248.06
21	46.575	-46.575	-248.06	257.38
22	43.858	-43.858	-257.38	266.15
23	41.616	-41.616	-266.15	274.47
24	39.846	-39.846	-274.47	282.44
25	38.543	-38.543	-282.44	290.15
26	37.706	-37.706	-290.15	297.69
27	37.330	-37.330	-297.69	305.15
28	37.412	-37.412	-305.15	312.64
29	37.948	-37.948	-312.64	320.23
30	38.935	-38.935	-320.23	328.01
31	40.400	-40.400	-328.01	336.09
32	42.340	-42.340	-336.09	344.56
33	44.749	-44.749	-344.56	353.51
34	47.624	-47.624	-353.51	363.04
35	50.959	-50.959	-363.04	373.23
36	54.750	-54.750	-373.23	384.18
37	58.990	-58.990	-384.18	395.98
38	63.676	-63.676	-395.98	408.71
39	68.801	-68.801	-408.71	422.47
40	74.359	-74.359	-422.47	437.34
41	80.347	-80.347	-437.34	453.41
42	86.757	-86.757	-453.41	470.76
43	93.583	-93.583	-470.76	489.48
44	100.82	-100.82	-489.48	509.64
45	108.46	-108.46	-509.64	531.34
46	116.50	-116.50	-531.34	554.64
47	105.69	-105.69	-554.64	575.77
48	95.844	-95.844	-575.77	594.94
49	86.951	-86.951	-594.94	612.33
50	78.982	-78.982	-612.33	628.13
51	71.915	-71.915	-628.13	642.51
52	65.723	-65.723	-642.51	655.66
53	60.381	-60.381	-655.66	667.73
54	55.864	-55.864	-667.73	678.90
55	52.144	-52.144	-678.90	689.33
56	49.196	-49.196	-689.33	699.17
57	30.497	-30.497	-699.17	705.27
58	12.693	-12.693	-705.27	707.81
59	-4.2523	4.2523	-707.81	706.96
60	-20.376	20.376	-706.96	702.89
61	-35.714	35.714	-702.89	695.74
62	-50.302	50.302	-695.74	685.68
63	-64.177	64.177	-685.68	672.85
64	-77.373	77.373	-672.85	657.37
65	-89.926	89.926	-657.37	639.39
66	-101.87	101.87	-639.39	619.01
67	-113.23	113.23	-619.01	596.37
68	-124.05	124.05	-596.37	571.56
69	-134.36	134.36	-571.56	544.68
70	-144.20	144.20	-544.68	515.84

71	-153.47	153.47	-515.84	485.15
72	-160.68	160.68	-485.15	453.01
73	-165.96	165.96	-453.01	419.82
74	-169.42	169.42	-419.82	385.94
75	-171.16	171.16	-385.94	351.70
76	-171.29	171.29	-351.70	317.45
77	-169.90	169.90	-317.45	283.47
78	-166.80	166.80	-283.47	250.11
79	-161.86	161.86	-250.11	217.73
80	-155.18	155.18	-217.73	186.70
81	-146.91	146.91	-186.70	157.32
82	-137.45	137.45	-157.32	129.83
83	-126.84	126.84	-129.83	104.46
84	-115.24	115.24	-104.46	81.410
85	-102.73	102.73	-81.410	60.864
86	-89.315	89.315	-60.864	43.001
87	-75.018	75.018	-43.001	27.997
88	-59.862	59.862	-27.997	16.024
89	-43.852	43.852	-16.024	7.2540
90	-26.991	26.991	-7.2540	1.8559
91	-9.2798	9.2798	-1.8559	2.13660E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1596E+07  RIMNOR=0.3122E+08
            RENORM= 16.14     REMNOR=0.1279E-16  RATIO =0.3180E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 171.3     RMMAX = 707.8
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1596E+07  RDR   =0.3122E+08
            RATIO=0.3180E-02  RATIO= 0.000
            MAX UN=0.1049E-08  IEQ=   32 NODE    16 DOF   2  X-ROT. F
            MIN UN=-.6156     IEQ=  167 NODE   84 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1596E+07  RIMNOR=0.3122E+08
            RENORM=0.3514E-14  REMNOR=0.1184E-16  RATIO =0.4692E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.3     RMMAX = 707.8
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1596E+07  RDR   =0.3122E+08
            RATIO=0.4692E-10  RATIO= 0.000
            MAX UN=0.1780E-07  IEQ=   49 NODE    25 DOF   1  Y-DISPL.F
            MIN UN=-.1701E-07  IEQ=   47 NODE    24 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021* |
| | |
| ParatiePlus |
Exe Time :28 January 2022 15:34:59

New Project
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000) SUBINCREMENT 0001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F	X-ROT. F
	02	04
1	2.0133093E-02	-1.4812470E-03
2	1.9836844E-02	-1.4812470E-03
3	1.9540595E-02	-1.4812452E-03
4	1.9244346E-02	-1.4812366E-03
5	1.8948101E-02	-1.4812134E-03
6	1.8651863E-02	-1.4811645E-03
7	1.8355638E-02	-1.4810763E-03
8	1.8059436E-02	-1.4809322E-03
9	1.7763270E-02	-1.4807123E-03
10	1.7467158E-02	-1.4803944E-03
11	1.7171121E-02	-1.4799529E-03
12	1.6875187E-02	-1.4793594E-03
13	1.6579389E-02	-1.4785828E-03
14	1.6283768E-02	-1.4775887E-03
15	1.5988370E-02	-1.4763402E-03
16	1.5693252E-02	-1.4747971E-03
17	1.5398396E-02	-1.4737250E-03
18	1.5103776E-02	-1.4724344E-03
19	1.4809439E-02	-1.4708974E-03
20	1.4515436E-02	-1.4690845E-03
21	1.4221825E-02	-1.4669647E-03
22	1.3928674E-02	-1.4644855E-03
23	1.3636060E-02	-1.4615788E-03
24	1.3344076E-02	-1.4581874E-03
25	1.3052821E-02	-1.4542643E-03
26	1.2762408E-02	-1.4497730E-03
27	1.2472952E-02	-1.4446876E-03
28	1.2184574E-02	-1.4389926E-03
29	1.1897397E-02	-1.4326830E-03
30	1.1611542E-02	-1.4257641E-03
31	1.1327131E-02	-1.4182519E-03
32	1.1044279E-02	-1.4101726E-03
33	1.0763098E-02	-1.4015605E-03
34	1.0483688E-02	-1.3924535E-03
35	1.0206148E-02	-1.3828875E-03
36	9.9305632E-03	-1.3728942E-03
37	9.6570171E-03	-1.3625017E-03
38	9.3855875E-03	-1.3517341E-03
39	9.1163472E-03	-1.3406116E-03
40	8.8493667E-03	-1.3291507E-03
41	8.5847100E-03	-1.3173636E-03
42	8.3224424E-03	-1.3052593E-03
43	8.0626271E-03	-1.2928426E-03
44	7.8053261E-03	-1.2801148E-03
45	7.5506033E-03	-1.2670734E-03
46	7.2985194E-03	-1.2537120E-03
47	7.0491405E-03	-1.2400209E-03
48	6.8025339E-03	-1.2259861E-03
49	6.5587701E-03	-1.2115904E-03
50	6.3179245E-03	-1.1968125E-03
51	6.0800735E-03	-1.1816274E-03
52	5.8453072E-03	-1.1660070E-03
53	5.6137065E-03	-1.1499186E-03
54	5.3853733E-03	-1.1333268E-03
55	5.1604120E-03	-1.1161924E-03
56	4.9389354E-03	-1.0984727E-03
57	4.7210650E-03	-1.0801218E-03
58	4.5069320E-03	-1.0610900E-03
59	4.2966779E-03	-1.0413248E-03
60	4.0904548E-03	-1.0207699E-03
61	3.8884265E-03	-9.9936606E-04
62	3.6907691E-03	-9.7705088E-04
63	3.4976662E-03	-9.5383593E-04
64	3.3092892E-03	-9.2980459E-04
65	3.1257937E-03	-9.0503253E-04
66	2.9473210E-03	-8.7958786E-04
67	2.7739994E-03	-8.5353134E-04
68	2.6059457E-03	-8.2691662E-04
69	2.4432668E-03	-7.9979039E-04
70	2.2860610E-03	-7.7219262E-04
71	2.1344190E-03	-7.4415675E-04
72	1.9884257E-03	-7.1570993E-04
73	1.8481565E-03	-6.8694024E-04
74	1.7136612E-03	-6.5799617E-04

75 1.5849603E-03 -6.2901918E-04
76 1.4620467E-03 -6.0014396E-04
77 1.3448873E-03 -5.7149873E-04
78 1.2334238E-03 -5.4320556E-04
79 1.1275739E-03 -5.1538063E-04
80 1.0272329E-03 -4.8813451E-04
81 9.3227449E-04 -4.6157249E-04
82 8.4255165E-04 -4.3579479E-04
83 7.5789792E-04 -4.1089690E-04
84 6.7812817E-04 -3.8696979E-04
85 6.0303950E-04 -3.6410018E-04
86 5.3241208E-04 -3.4237083E-04
87 4.6600992E-04 -3.2186025E-04
88 4.0358221E-04 -3.0263621E-04
89 3.4486624E-04 -2.8475006E-04
90 2.8958791E-04 -2.6823698E-04
91 2.3747558E-04 -2.5312011E-04
92 1.8824632E-04 -2.3940641E-04
93 1.4161981E-04 -2.2709082E-04
94 9.7318009E-05 -2.1615502E-04
95 5.5068003E-05 -2.0656618E-04
96 1.4604911E-05 -1.9827674E-04
97 -2.4325241E-05 -1.9122550E-04
98 -6.1962993E-05 -1.8533983E-04
99 -9.8533395E-05 -1.8053750E-04
100 -1.3424415E-04 -1.7672751E-04
101 -1.6928397E-04 -1.7381107E-04
102 -2.0382106E-04 -1.7168192E-04
103 -2.3800335E-04 -1.7022642E-04
104 -2.7195021E-04 -1.6932399E-04
105 -3.0576130E-04 -1.6884678E-04
106 -3.3950829E-04 -1.6866002E-04
107 -3.7323353E-04 -1.6862198E-04

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus |
|                                                                                               Exe Time :28 January 2022  15:34:59 |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

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0_L
ELEMENT TYPE   5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT   TIME   IS   2.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-2.0133E-02	0.000	0.000	0.4686	4.640	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2466	-1.9837E-02	3.800	1.233	4.322	6.662	UL-RL	1.4407E+04	-0.2000	0.000	
1.000	1.000	1.233	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.4496	-1.9541E-02	7.600	2.248	8.178	8.677	UL-RL	1.4407E+04	-0.4000	0.000	
1.000	1.000	2.248	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.6524	-1.9244E-02	11.40	3.262	12.04	10.68	UL-RL	1.4407E+04	-0.6000	0.000	
1.000	1.000	3.262	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.8551	-1.8948E-02	15.20	4.276	15.90	12.68	UL-RL	1.4407E+04	-0.8000	0.000	
1.000	1.000	4.276	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.058	-1.8652E-02	19.00	5.289	19.76	14.68	UL-RL	1.4407E+04	-1.000	0.000	
1.000	1.000	5.289	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.261	-1.8356E-02	22.80	6.303	23.63	16.66	UL-RL	1.4407E+04	-1.200	0.000	
1.000	1.000	6.303	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.463	-1.8059E-02	26.60	7.316	27.50	18.64	UL-RL	1.4407E+04	-1.400	0.000	
1.000	1.000	7.316	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	1.666	-1.7763E-02	30.40	8.330	31.37	20.62	UL-RL	1.4407E+04	-1.600	0.000	
1.000	1.000	8.330	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	1.869	-1.7467E-02	34.20	9.344	35.24	22.58	UL-RL	1.4407E+04	-1.800	0.000	
1.000	1.000	9.344	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.071	-1.7171E-02	38.00	10.36	39.12	24.54	UL-RL	1.4407E+04	-2.000	0.000	
1.000	1.000	10.36	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.274	-1.6875E-02	41.80	11.37	42.99	26.49	UL-RL	1.4407E+04	-2.200	0.000	
1.000	1.000	11.37	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	2.477	-1.6579E-02	45.60	12.38	46.87	28.44	UL-RL	1.4407E+04	-2.400	0.000	
1.000	1.000	12.38	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	2.680	-1.6284E-02	49.40	13.40	50.75	30.38	UL-RL	1.4407E+04	-2.600	0.000	
1.000	1.000	13.40	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	2.882	-1.5988E-02	53.20	14.41	54.63	32.32	UL-RL	1.4407E+04	-2.800	0.000	
1.000	1.000	14.41	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	3.085	-1.5693E-02	57.00	15.43	58.51	34.25	UL-RL	1.4407E+04	-3.000	0.000	
1.000	1.000	15.43	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	3.288	-1.5398E-02	60.80	16.44	62.40	36.17	UL-RL	1.4407E+04	-3.200	0.000	
1.000	1.000	16.44	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.490	-1.5104E-02	64.60	17.45	66.28	38.09	UL-RL	1.4407E+04	-3.400	0.000	
1.000	1.000	17.45	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.693	-1.4809E-02	68.40	18.47	70.17	40.01	UL-RL	1.4407E+04	-3.600	0.000	
1.000	1.000	18.47	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.896	-1.4515E-02	72.20	19.48	74.05	41.92	UL-RL	1.4407E+04	-3.800	0.000	
1.000	1.000	19.48	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	10.07	-1.4222E-02	76.00	50.35	77.94	50.38	UL-RL	2.6488E+04	-4.000	0.000	
1.000	1.000	50.35	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	10.60	-1.3929E-02	79.80	53.01	81.82	53.06	UL-RL	2.6488E+04	-4.200	0.000	

1.000	1.000	53.01	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	11.13	-1.3636E-02	83.60	55.67	85.71	55.73	UL-RL 2.6488E+04	-4.400	0.000
1.000	1.000	55.67	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	11.67	-1.3344E-02	87.40	58.33	89.60	58.41	UL-RL 2.6488E+04	-4.600	0.000
1.000	1.000	58.33	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	12.20	-1.3053E-02	91.20	60.99	93.48	61.09	UL-RL 2.6488E+04	-4.800	0.000
1.000	1.000	60.99	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	12.73	-1.2762E-02	95.00	63.64	97.37	63.77	UL-RL 2.6488E+04	-5.000	0.000
1.000	1.000	63.64	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	13.26	-1.2473E-02	98.80	66.30	101.3	66.44	UL-RL 2.6488E+04	-5.200	0.000
1.000	1.000	66.30	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	13.79	-1.2185E-02	102.6	68.96	105.1	69.12	UL-RL 2.6488E+04	-5.400	0.000
1.000	1.000	68.96	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	14.32	-1.1897E-02	106.4	71.62	109.0	71.80	UL-RL 2.6488E+04	-5.600	0.000
1.000	1.000	71.62	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	14.86	-1.1612E-02	110.2	74.28	112.9	74.48	UL-RL 2.6488E+04	-5.800	0.000
1.000	1.000	74.28	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.46	-1.1327E-02	112.9	76.16	115.7	76.38	UL-RL 2.6488E+04	-6.000	1.127
1.000	1.000	77.29	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.11	-1.1044E-02	114.7	77.45	117.6	77.68	UL-RL 2.6488E+04	-6.200	3.114
1.000	1.000	80.56	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	16.77	-1.0763E-02	116.5	78.74	119.5	78.99	UL-RL 2.6488E+04	-6.400	5.101
1.000	1.000	83.84	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	17.42	-1.0484E-02	118.3	80.03	121.4	80.29	UL-RL 2.6488E+04	-6.600	7.089
1.000	1.000	87.11	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	18.08	-1.0206E-02	120.1	81.31	123.2	81.60	UL-RL 2.6488E+04	-6.800	9.076
1.000	1.000	90.39	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	18.73	-9.9306E-03	121.9	82.60	125.1	82.90	UL-RL 2.6488E+04	-7.000	11.06
1.000	1.000	93.66	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	19.39	-9.6570E-03	123.7	83.89	127.0	84.21	UL-RL 2.6488E+04	-7.200	13.05
1.000	1.000	96.94	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	20.04	-9.3856E-03	125.6	85.17	128.9	85.51	UL-RL 2.6488E+04	-7.400	15.04
1.000	1.000	100.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	20.70	-9.1163E-03	127.4	86.46	130.8	86.81	UL-RL 2.6488E+04	-7.600	17.03
1.000	1.000	103.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	21.35	-8.8494E-03	129.2	87.74	132.7	88.11	UL-RL 2.6488E+04	-7.800	19.01
1.000	1.000	106.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	22.00	-8.5847E-03	131.0	89.02	134.6	89.41	UL-RL 2.6488E+04	-8.000	21.00
1.000	1.000	110.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.66	-8.3224E-03	132.8	90.31	136.5	90.71	UL-RL 2.6488E+04	-8.200	22.99
1.000	1.000	113.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.31	-8.0626E-03	134.6	91.59	138.4	92.01	UL-RL 2.6488E+04	-8.400	24.97
1.000	1.000	116.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.97	-7.8053E-03	136.4	92.87	140.2	93.31	UL-RL 2.6488E+04	-8.600	26.96
1.000	1.000	119.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	24.62	-7.5506E-03	138.3	94.15	142.1	94.61	UL-RL 2.6488E+04	-8.800	28.95
1.000	1.000	123.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	25.29	-7.2985E-03	140.1	95.52	144.2	96.05	UL-RL 2.6488E+04	-9.000	30.94
1.000	1.000	126.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	25.97	-7.0491E-03	141.9	96.90	146.3	97.51	UL-RL 2.6488E+04	-9.200	32.92
1.000	1.000	129.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	26.64	-6.8025E-03	143.7	98.28	148.4	98.96	UL-RL 2.6488E+04	-9.400	34.91
1.000	1.000	133.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	27.31	-6.5588E-03	145.5	99.65	150.5	100.4	UL-RL 2.6488E+04	-9.600	36.90
1.000	1.000	136.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	27.98	-6.3179E-03	147.3	101.0	152.6	101.8	UL-RL 2.6488E+04	-9.800	38.89
1.000	1.000	139.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	28.65	-6.0801E-03	149.1	102.4	154.7	103.3	UL-RL 2.6488E+04	-10.00	40.87
1.000	1.000	143.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	29.32	-5.8453E-03	150.9	103.7	156.8	104.7	UL-RL 2.6488E+04	-10.20	42.86
1.000	1.000	146.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	29.99	-5.6137E-03	152.8	105.1	158.9	106.1	UL-RL 2.6488E+04	-10.40	44.85
1.000	1.000	150.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	30.66	-5.3854E-03	154.6	106.5	160.9	107.6	UL-RL 2.6488E+04	-10.60	46.83
1.000	1.000	153.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	31.33	-5.1604E-03	156.4	107.8	163.0	109.0	UL-RL 2.6488E+04	-10.80	48.82
1.000	1.000	156.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	32.00	-4.9389E-03	158.2	109.2	165.1	110.4	UL-RL 2.6488E+04	-11.00	50.81
1.000	1.000	160.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	32.66	-4.7211E-03	160.0	110.5	167.1	111.8	UL-RL 2.6488E+04	-11.20	52.80
1.000	1.000	163.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	33.33	-4.5069E-03	161.8	111.9	169.2	113.2	UL-RL 2.6488E+04	-11.40	54.78
1.000	1.000	166.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	34.00	-4.2967E-03	163.6	113.2	171.2	114.6	UL-RL 2.6488E+04	-11.60	56.77
1.000	1.000	170.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
60 D	34.66	-4.0905E-03	165.4	114.6	173.2	116.0	UL-RL 2.6488E+04	-11.80	58.76
1.000	1.000	173.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
61 D	35.33	-3.8884E-03	167.3	115.9	175.3	117.4	UL-RL 2.6488E+04	-12.00	60.75
1.000	1.000	176.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
62 D	29.25	-3.6908E-03	169.2	83.51	177.4	88.76	UL-RL 9.4545E+04	-12.20	62.73
1.000	1.000	146.2	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
63 D	29.89	-3.4977E-03	171.3	84.73	179.8	89.76	UL-RL 9.4545E+04	-12.40	64.72
1.000	1.000	149.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
64 D	30.53	-3.3093E-03	173.4	85.95	182.1	90.76	UL-RL 9.4545E+04	-12.60	66.71
1.000	1.000	152.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
65 D	31.17	-3.1258E-03	175.5	87.16	184.4	91.77	UL-RL 9.4545E+04	-12.80	68.70
1.000	1.000	155.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
66 D	31.81	-2.9473E-03	177.6	88.38	186.7	92.77	UL-RL 9.4545E+04	-13.00	70.68
1.000	1.000	159.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
67 D	32.45	-2.7740E-03	179.7	89.60	189.0	93.77	UL-RL 9.4545E+04	-13.20	72.67
1.000	1.000	162.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
68 D	33.09	-2.6059E-03	181.9	90.81	191.3	94.78	UL-RL 9.4545E+04	-13.40	74.66
1.000	1.000	165.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
69 D	33.73	-2.4433E-03	184.0	92.03	193.6	95.78	UL-RL 9.4545E+04	-13.60	76.64
1.000	1.000	168.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
70 D	34.37	-2.2861E-03	186.1	93.24	195.9	96.79	UL-RL 9.4545E+04	-13.80	78.63
1.000	1.000	171.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
71 D	35.01	-2.1344E-03	188.2	94.45	198.2	97.80	UL-RL 9.4545E+04	-14.00	80.62
1.000	1.000	175.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
72 D	22.22	-1.9884E-03	190.5	28.47	200.7	98.88	UL-RL 1.2392E+05	-14.20	82.61
1.000	1.000	111.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
73 D	22.87	-1.8482E-03	193.0	29.74	203.4	100.1	UL-RL 1.2392E+05	-14.40	84.59
1.000	1.000	114.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
74 D	23.52	-1.7137E-03	195.5	31.00	206.1	101.3	UL-RL 1.2392E+05	-14.60	86.58
1.000	1.000	117.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
75 D	24.17	-1.5850E-03	198.0	32.27	208.8	102.5	UL-RL 1.2392E+05	-14.80	88.57
1.000	1.000	120.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
76 D	24.82	-1.4620E-03	200.5	33.54	211.4	103.7	UL-RL 1.2392E+05	-15.00	90.56
1.000	1.000	124.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
77 D	25.47	-1.3449E-03	203.0	34.80	214.1	104.9	UL-RL 1.2392E+05	-15.20	92.54
1.000	1.000	127.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
78 D	26.12	-1.2334E-03	205.5	36.07	216.8	106.1	UL-RL 1.2392E+05	-15.40	94.53
1.000	1.000	130.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
79 D	26.77	-1.1276E-03	208.1	37.34	219.5	107.3	UL-RL 1.2392E+05	-15.60	96.52
1.000	1.000	133.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
80 D	27.42	-1.0272E-03	210.6	38.61	222.2	108.6	UL-RL 1.2392E+05	-15.80	98.50
1.000	1.000	137.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
81 D	28.07	-9.3227E-04	213.1	39.88	224.8	109.8	UL-RL 1.2392E+05	-16.00	100.5
1.000	1.000	140.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
82 D	28.73	-8.4255E-04	215.6	41.15	227.5	111.0	UL-RL 1.2392E+05	-16.20	102.5
1.000	1.000	143.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
83 D	29.38	-7.5790E-04	218.1	42.42	230.2	112.2	UL-RL 1.2392E+05	-16.40	104.5
1.000	1.000	146.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	30.03	-6.7813E-04	220.6	43.69	232.8	113.4	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	150.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.67	-6.0304E-04	223.1	44.91	235.3	114.6	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	153.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.44	-5.3241E-04	225.7	46.79	237.7	115.8	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	157.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.73	-4.6601E-04	228.2	56.25	240.2	117.0	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	168.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	35.93	-4.0358E-04	230.7	65.22	242.6	118.3	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	179.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.02	-3.4487E-04	233.2	73.73	245.1	119.5	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	190.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.04	-2.8959E-04	235.7	81.81	247.5	120.7	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	200.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	41.97	-2.3748E-04	238.2	89.50	250.0	121.9	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	209.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	43.84	-1.8825E-04	240.7	96.84	252.4	123.1	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	219.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.64	-1.4162E-04	243.2	103.8	254.9	124.3	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	228.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.38	-9.7318E-05	245.8	110.6	257.3	125.6	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	236.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.07	-5.5068E-05	248.3	117.0	259.8	126.8	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	245.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.62	-1.4605E-05	250.8	122.8	262.2	128.2	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	253.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.80	2.4325E-05	253.3	126.7	264.7	130.5	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	52.97	6.1963E-05	255.8	130.6	267.1	132.8	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	264.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	53.98	9.8533E-05	258.3	133.7	269.6	135.3	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	269.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	54.94	1.3424E-04	260.8	136.5	272.1	138.0	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	274.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	55.90	1.6928E-04	263.3	139.2	274.5	140.6	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	279.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	56.84	2.0382E-04	265.9	142.0	277.0	143.2	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	284.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.77	2.3800E-04	268.4	144.6	279.4	145.9	UL-RL	1.2392E+05	-20.40	144.2
1.000	1.000	288.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.69	2.7195E-04	270.9	147.3	281.9	148.5	UL-RL	1.2392E+05	-20.60	146.2
1.000	1.000	293.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.61	3.0576E-04	273.4	149.9	284.3	151.1	UL-RL	1.2392E+05	-20.80	148.2
1.000	1.000	298.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.54	3.3951E-04	275.9	152.5	286.8	153.7	UL-RL	1.2392E+05	-21.00	150.2
1.000	1.000	302.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.73	3.7323E-04	278.4	155.1	289.3	156.3	UL-RL	1.2392E+05	-21.20	152.2
1.000	1.000	307.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						


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|                                     |
|                PARATIEPLUS(TM)    NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021* |
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|                                 ParatiePlus |
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|                                Exe Time :28 January 2022 15:34:59 |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

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O_R :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS    2.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
TOR	UFACTOR	Peq	Su_a	Su_p	Cohe_a	Cohe_p	LAYER		ZFO	QS	
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
21 D	1.160	1.4222E-02	0.000	5.799	0.000	6.171	UL-RL 2.1501E+04		-4.000	0.000	
1.000	1.000	5.799	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.968	1.3929E-02	3.800	14.84	3.800	15.21	UL-RL 2.1501E+04		-4.200	0.000	
1.000	1.000	14.84	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.776	1.3636E-02	7.600	23.88	7.600	24.26	UL-RL 2.1501E+04		-4.400	0.000	
1.000	1.000	23.88	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.585	1.3344E-02	11.40	32.92	11.40	33.30	UL-RL 2.1501E+04		-4.600	0.000	
1.000	1.000	32.92	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.393	1.3053E-02	15.20	41.97	15.20	42.35	UL-RL 2.1501E+04		-4.800	0.000	
1.000	1.000	41.97	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.20	1.2762E-02	19.00	51.01	19.00	51.39	UL-RL 2.1501E+04		-5.000	0.000	
1.000	1.000	51.01	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.01	1.2473E-02	22.80	60.05	22.80	60.43	UL-RL 2.1501E+04		-5.200	0.000	
1.000	1.000	60.05	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.82	1.2185E-02	26.60	69.09	26.60	69.48	UL-RL 2.1501E+04		-5.400	0.000	
1.000	1.000	69.09	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.63	1.1897E-02	30.40	78.13	30.40	78.52	UL-RL 2.1501E+04	-5.600	0.000
1.000	1.000	78.13	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	17.43	1.1612E-02	34.20	87.17	34.20	87.57	UL-RL 2.1501E+04	-5.800	0.000
1.000	1.000	87.17	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.24	1.1327E-02	38.00	96.21	38.00	96.61	UL-RL 2.1501E+04	-6.000	0.000
1.000	1.000	96.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.72	1.1044E-02	40.59	102.4	40.59	102.8	UL-RL 2.1501E+04	-6.200	1.211
1.000	1.000	103.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.38	1.0763E-02	42.38	103.7	42.38	104.1	UL-RL 2.1501E+04	-6.400	3.223
1.000	1.000	106.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	21.55	1.0484E-02	44.16	102.5	44.16	102.9	UL-RL 2.1501E+04	-6.600	5.236
1.000	1.000	107.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	21.73	1.0206E-02	45.95	101.4	45.95	101.8	UL-RL 2.1501E+04	-6.800	7.249
1.000	1.000	108.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	21.91	9.9306E-03	47.74	100.3	47.74	100.7	UL-RL 2.1501E+04	-7.000	9.261
1.000	1.000	109.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	22.09	9.6570E-03	49.53	99.15	49.53	99.56	UL-RL 2.1501E+04	-7.200	11.27
1.000	1.000	110.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.27	9.3856E-03	51.31	98.06	51.31	98.47	UL-RL 2.1501E+04	-7.400	13.29
1.000	1.000	111.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	22.46	9.1163E-03	53.10	96.98	53.10	97.39	UL-RL 2.1501E+04	-7.600	15.30
1.000	1.000	112.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	22.64	8.8494E-03	54.89	95.91	54.89	96.33	UL-RL 2.1501E+04	-7.800	17.31
1.000	1.000	113.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	22.84	8.5847E-03	56.68	94.86	56.68	95.28	UL-RL 2.1501E+04	-8.000	19.32
1.000	1.000	114.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	23.03	8.3224E-03	58.46	93.82	58.46	94.24	UL-RL 2.1501E+04	-8.200	21.34
1.000	1.000	115.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.23	8.0626E-03	60.25	92.81	60.25	93.23	UL-RL 2.1501E+04	-8.400	23.35
1.000	1.000	116.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.43	7.8053E-03	62.04	91.80	62.04	92.23	UL-RL 2.1501E+04	-8.600	25.36
1.000	1.000	117.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	23.64	7.5506E-03	63.82	90.82	63.82	91.24	UL-RL 2.1501E+04	-8.800	27.38
1.000	1.000	118.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	23.85	7.2985E-03	65.61	89.86	65.61	90.28	UL-RL 2.1501E+04	-9.000	29.39
1.000	1.000	119.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	24.06	7.0491E-03	67.40	88.91	67.40	89.33	UL-RL 2.1501E+04	-9.200	31.40
1.000	1.000	120.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	24.28	6.8025E-03	69.19	87.98	69.19	88.41	UL-RL 2.1501E+04	-9.400	33.41
1.000	1.000	121.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	24.50	6.5588E-03	70.97	87.08	70.97	87.50	UL-RL 2.1501E+04	-9.600	35.43
1.000	1.000	122.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	24.73	6.3179E-03	72.76	86.19	72.76	86.61	UL-RL 2.1501E+04	-9.800	37.44
1.000	1.000	123.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	24.96	6.0801E-03	74.55	85.33	74.55	85.75	UL-RL 2.1501E+04	-10.00	39.45
1.000	1.000	124.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	25.19	5.8453E-03	76.34	84.49	76.34	84.90	UL-RL 2.1501E+04	-10.20	41.46
1.000	1.000	126.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	25.43	5.6137E-03	78.12	83.67	78.12	84.08	UL-RL 2.1501E+04	-10.40	43.48
1.000	1.000	127.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	25.67	5.3854E-03	79.91	82.87	79.91	83.29	UL-RL 2.1501E+04	-10.60	45.49
1.000	1.000	128.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	25.92	5.1604E-03	81.70	82.10	81.70	82.51	UL-RL 2.1501E+04	-10.80	47.50
1.000	1.000	129.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	26.17	4.9389E-03	83.48	81.35	83.48	81.76	UL-RL 2.1501E+04	-11.00	49.52
1.000	1.000	130.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	26.43	4.7211E-03	85.27	80.63	85.27	81.04	UL-RL 2.1501E+04	-11.20	51.53
1.000	1.000	132.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	26.70	4.5069E-03	87.06	79.94	87.06	80.34	UL-RL 2.1501E+04	-11.40	53.54
1.000	1.000	133.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	26.97	4.2967E-03	88.85	79.28	88.85	79.67	UL-RL 2.1501E+04	-11.60	55.55
1.000	1.000	134.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	27.24	4.0905E-03	90.63	78.64	90.63	79.03	UL-RL 2.1501E+04	-11.80	57.57	
1.000	1.000	136.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	27.52	3.8884E-03	92.42	78.04	92.42	78.42	UL-RL 2.1501E+04	-12.00	59.58	
1.000	1.000	137.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.89	3.6908E-03	94.33	137.8	94.33	139.1	UL-RL 7.1008E+04	-12.20	61.59	
1.000	1.000	199.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.57	3.4977E-03	96.42	134.3	96.42	135.5	UL-RL 7.1008E+04	-12.40	63.60	
1.000	1.000	197.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	39.29	3.3093E-03	98.50	130.8	98.50	132.0	UL-RL 7.1008E+04	-12.60	65.62	
1.000	1.000	196.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	39.02	3.1258E-03	100.6	127.5	100.6	128.7	UL-RL 7.1008E+04	-12.80	67.63	
1.000	1.000	195.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	38.78	2.9473E-03	102.7	124.2	102.7	125.5	UL-RL 7.1008E+04	-13.00	69.64	
1.000	1.000	193.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.56	2.7740E-03	104.8	121.1	104.8	122.3	UL-RL 7.1008E+04	-13.20	71.65	
1.000	1.000	192.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	38.37	2.6059E-03	106.9	118.2	106.9	119.3	UL-RL 7.1008E+04	-13.40	73.67	
1.000	1.000	191.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	38.20	2.4433E-03	108.9	115.3	108.9	116.5	UL-RL 7.1008E+04	-13.60	75.68	
1.000	1.000	191.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.06	2.2861E-03	111.0	112.6	111.0	113.7	UL-RL 7.1008E+04	-13.80	77.69	
1.000	1.000	190.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	37.95	2.1344E-03	113.1	110.0	113.1	111.1	UL-RL 7.1008E+04	-14.00	79.71	
1.000	1.000	189.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	40.75	1.9884E-03	115.4	122.0	115.4	123.5	UL-RL 9.3069E+04	-14.20	81.72	
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	40.53	1.8482E-03	117.8	118.9	117.8	120.3	UL-RL 9.3069E+04	-14.40	83.73	
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	40.33	1.7137E-03	120.3	115.9	120.3	117.4	UL-RL 9.3069E+04	-14.60	85.74	
1.000	1.000	201.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	40.18	1.5850E-03	122.8	113.1	122.8	114.5	UL-RL 9.3069E+04	-14.80	87.76	
1.000	1.000	200.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.06	1.4620E-03	125.3	110.5	125.3	111.9	UL-RL 9.3069E+04	-15.00	89.77	
1.000	1.000	200.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	39.98	1.3449E-03	127.8	108.1	127.8	109.5	UL-RL 9.3069E+04	-15.20	91.78	
1.000	1.000	199.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	39.93	1.2334E-03	130.3	105.9	130.3	107.2	UL-RL 9.3069E+04	-15.40	93.79	
1.000	1.000	199.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	39.92	1.1276E-03	132.8	103.8	132.8	105.1	UL-RL 9.3069E+04	-15.60	95.81	
1.000	1.000	199.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	39.94	1.0272E-03	135.3	101.9	135.3	103.2	UL-RL 9.3069E+04	-15.80	97.82	
1.000	1.000	199.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	39.99	9.3227E-04	137.7	100.1	137.7	101.5	UL-RL 9.3069E+04	-16.00	99.83	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	40.08	8.4255E-04	140.2	98.55	140.2	99.87	UL-RL 9.3069E+04	-16.20	101.8	
1.000	1.000	200.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.20	7.5790E-04	142.7	97.13	142.7	98.44	UL-RL 9.3069E+04	-16.40	103.9	
1.000	1.000	201.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	40.35	6.7813E-04	145.2	95.86	145.2	97.16	UL-RL 9.3069E+04	-16.60	105.9	
1.000	1.000	201.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	40.52	6.0304E-04	147.7	94.74	147.7	96.03	UL-RL 9.3069E+04	-16.80	107.9	
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	40.73	5.3241E-04	150.2	93.75	150.2	95.04	UL-RL 9.3069E+04	-17.00	109.9	
1.000	1.000	203.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	40.96	4.6601E-04	152.7	92.90	152.7	94.18	UL-RL 9.3069E+04	-17.20	111.9	
1.000	1.000	204.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	41.22	4.0358E-04	155.2	92.17	155.2	93.44	UL-RL 9.3069E+04	-17.40	113.9	
1.000	1.000	206.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	41.50	3.4487E-04	157.6	91.56	157.6	92.82	UL-RL 9.3069E+04	-17.60	115.9	
1.000	1.000	207.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	41.80	2.8959E-04	160.1	91.05	160.1	92.30	UL-RL 9.3069E+04	-17.80	117.9	

1.000	1.000	209.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
91 D	42.12	2.3748E-04	162.6	90.64	162.6	91.89	UL-RL 9.3069E+04	-18.00 120.0
1.000	1.000	210.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
92 D	42.46	1.8825E-04	165.1	90.32	165.1	91.56	UL-RL 9.3069E+04	-18.20 122.0
1.000	1.000	212.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
93 D	42.55	1.4162E-04	167.6	88.77	167.6	91.97	UL-RL 9.3069E+04	-18.40 124.0
1.000	1.000	212.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
94 D	42.46	9.7318E-05	170.1	86.31	170.1	92.96	UL-RL 9.3069E+04	-18.60 126.0
1.000	1.000	212.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
95 D	42.40	5.5068E-05	172.6	84.00	172.6	93.95	UL-RL 9.3069E+04	-18.80 128.0
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
96 D	42.37	1.4605E-05	175.1	81.82	175.1	94.97	UL-RL 9.3069E+04	-19.00 130.0
1.000	1.000	211.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
97 D	42.36	-2.4325E-05	177.5	79.77	177.5	95.99	UL-RL 9.3069E+04	-19.20 132.0
1.000	1.000	211.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
98 D	42.37	-6.1963E-05	180.0	77.82	180.0	97.03	UL-RL 9.3069E+04	-19.40 134.0
1.000	1.000	211.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
99 D	42.40	-9.8533E-05	182.5	75.95	182.5	98.07	UL-RL 9.3069E+04	-19.60 136.1
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
100 D	42.44	-1.3424E-04	185.0	74.15	185.0	99.13	UL-RL 9.3069E+04	-19.80 138.1
1.000	1.000	212.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
101 D	42.50	-1.6928E-04	187.5	72.40	187.5	100.2	UL-RL 9.3069E+04	-20.00 140.1
1.000	1.000	212.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
102 D	42.56	-2.0382E-04	190.0	70.69	190.0	101.2	UL-RL 9.3069E+04	-20.20 142.1
1.000	1.000	212.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
103 D	42.62	-2.3800E-04	192.5	69.00	192.5	102.3	UL-RL 9.3069E+04	-20.40 144.1
1.000	1.000	213.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
104 D	42.69	-2.7195E-04	195.0	67.34	195.0	103.4	UL-RL 9.3069E+04	-20.60 146.1
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
105 D	42.76	-3.0576E-04	197.4	65.69	197.4	104.4	UL-RL 9.3069E+04	-20.80 148.1
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
106 D	42.84	-3.3951E-04	199.9	64.04	199.9	105.5	UL-RL 9.3069E+04	-21.00 150.1
1.000	1.000	214.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				
107 D	21.46	-3.7323E-04	202.4	62.40	202.4	106.6	UL-RL 9.3069E+04	-21.20 152.2
1.000	1.000	214.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000				

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.59543E-10	-3.59543E-10	3.52851E-11	7.76168E-10
2	0.24663	-0.24663	-8.57308E-10	4.93263E-02
3	0.69625	-0.69625	-4.93263E-02	0.18858
4	1.3487	-1.3487	-0.18858	0.45831
5	2.2038	-2.2038	-0.45831	0.89907
6	3.2617	-3.2617	-0.89907	1.5514
7	4.5222	-4.5222	-1.5514	2.4558
8	5.9855	-5.9855	-2.4558	3.6529
9	7.6515	-7.6515	-3.6529	5.1832
10	9.5202	-9.5202	-5.1832	7.0873
11	11.592	-11.592	-7.0873	9.4056
12	13.866	-13.866	-9.4056	12.179
13	16.343	-16.343	-12.179	15.447
14	19.022	-19.022	-15.447	19.252
15	21.905	-21.905	-19.252	23.633

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP  91
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.990	-24.990	-23.633	28.631
2	28.277	-28.277	-28.631	34.286
3	31.768	-31.768	-34.286	40.640
4	35.461	-35.461	-40.640	47.732
5	39.357	-39.357	-47.732	55.603
6	48.267	-48.267	-55.603	65.257
7	55.901	-55.901	-65.257	76.437
8	62.258	-62.258	-76.437	88.888
9	67.338	-67.338	-88.888	102.36
10	71.142	-71.142	-102.36	116.58
11	73.670	-73.670	-116.58	131.32
12	74.920	-74.920	-131.32	146.30
13	74.895	-74.895	-146.30	161.28
14	73.593	-73.593	-161.28	176.00
15	71.014	-71.014	-176.00	190.20
16	67.229	-67.229	-190.20	203.65
17	62.624	-62.624	-203.65	216.17
18	58.014	-58.014	-216.17	227.78
19	53.885	-53.885	-227.78	238.55
20	50.236	-50.236	-238.55	248.60
21	47.063	-47.063	-248.60	258.01
22	44.365	-44.365	-258.01	266.89
23	42.137	-42.137	-266.89	275.31
24	40.378	-40.378	-275.31	283.39
25	39.084	-39.084	-283.39	291.21
26	38.252	-38.252	-291.21	298.86
27	37.879	-37.879	-298.86	306.43
28	37.960	-37.960	-306.43	314.02
29	38.493	-38.493	-314.02	321.72
30	39.473	-39.473	-321.72	329.62
31	40.916	-40.916	-329.62	337.80
32	42.819	-42.819	-337.80	346.36
33	45.178	-45.178	-346.36	355.40
34	47.987	-47.987	-355.40	365.00
35	51.241	-51.241	-365.00	375.24
36	54.937	-54.937	-375.24	386.23
37	59.069	-59.069	-386.23	398.05
38	63.631	-63.631	-398.05	410.77
39	68.619	-68.619	-410.77	424.50
40	74.027	-74.027	-424.50	439.30
41	79.849	-79.849	-439.30	455.27
42	86.081	-86.081	-455.27	472.49
43	92.715	-92.715	-472.49	491.03
44	99.746	-99.746	-491.03	510.98
45	107.17	-107.17	-510.98	532.41
46	114.97	-114.97	-532.41	555.41
47	104.34	-104.34	-555.41	576.27
48	94.650	-94.650	-576.27	595.20
49	85.895	-85.895	-595.20	612.38
50	78.047	-78.047	-612.38	627.99
51	71.082	-71.082	-627.99	642.21
52	64.975	-64.975	-642.21	655.20
53	59.701	-59.701	-655.20	667.14
54	55.234	-55.234	-667.14	678.19
55	51.548	-51.548	-678.19	688.50
56	48.617	-48.617	-688.50	698.22
57	30.080	-30.080	-698.22	704.24
58	12.421	-12.421	-704.24	706.72
59	-4.3964	4.3964	-706.72	705.85
60	-20.409	20.409	-705.85	701.76
61	-35.651	35.651	-701.76	694.63
62	-50.159	50.159	-694.63	684.60
63	-63.968	63.968	-684.60	671.81
64	-77.113	77.113	-671.81	656.39
65	-89.628	89.628	-656.39	638.46
66	-101.55	101.55	-638.46	618.15
67	-112.90	112.90	-618.15	595.57
68	-123.72	123.72	-595.57	570.83
69	-134.04	134.04	-570.83	544.02
70	-143.89	143.89	-544.02	515.24

71	-153.18	153.18	-515.24	484.61
72	-160.40	160.40	-484.61	452.53
73	-165.70	165.70	-452.53	419.39
74	-169.17	169.17	-419.39	385.55
75	-170.93	170.93	-385.55	351.37
76	-171.08	171.08	-351.37	317.15
77	-169.70	169.70	-317.15	283.21
78	-166.61	166.61	-283.21	249.89
79	-161.69	161.69	-249.89	217.55
80	-155.02	155.02	-217.55	186.54
81	-146.77	146.77	-186.54	157.19
82	-137.33	137.33	-157.19	129.72
83	-126.73	126.73	-129.72	104.38
84	-115.15	115.15	-104.38	81.350
85	-102.65	102.65	-81.350	60.821
86	-89.247	89.247	-60.821	42.971
87	-74.964	74.964	-42.971	27.978
88	-59.820	59.820	-27.978	16.014
89	-43.822	43.822	-16.014	7.2493
90	-26.973	26.973	-7.2493	1.8547
91	-9.2741	9.2741	-1.8547	9.32587E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1590E+07  RIMNOR=0.3124E+08
            RENORM=0.3514E-14  REMNOR=0.1184E-16  RATIO =0.4701E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.1      RMMAX = 706.7
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1590E+07  RDR   =0.3124E+08
            RATIO=0.4701E-10  RATIO= 0.000
            MAX UN=0.1780E-07  IEQ=   49 NODE      25 DOF   1  Y-DISPL.F
            MIN UN=-.1701E-07  IEQ=   47 NODE      24 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      1  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1590E+07  RIMNOR=0.3124E+08
            RENORM=0.3494E-14  REMNOR=0.1299E-16  RATIO =0.4688E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.1      RMMAX = 706.7
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1590E+07  RDR   =0.3124E+08
            RATIO=0.4688E-10  RATIO= 0.000
            MAX UN=0.1601E-07  IEQ=    3 NODE      2 DOF   1  Y-DISPL.F
            MIN UN=-.1746E-07  IEQ=   45 NODE      23 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1590E+07  RIMNOR=0.3124E+08
            RENORM=0.4752E-14  REMNOR=0.1170E-16  RATIO =0.5467E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.1      RMMAX = 706.7
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1590E+07  RDR   =0.3124E+08
            RATIO=0.5467E-10  RATIO= 0.000
            MAX UN=0.2478E-07  IEQ=   31 NODE      16 DOF   1  Y-DISPL.F
            MIN UN=-.1858E-07  IEQ=   33 NODE      17 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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75 1.5849603E-03 -6.2901918E-04
76 1.4620467E-03 -6.0014396E-04
77 1.3448873E-03 -5.7149873E-04
78 1.2334238E-03 -5.4320556E-04
79 1.1275739E-03 -5.1538063E-04
80 1.0272329E-03 -4.8813451E-04
81 9.3227449E-04 -4.6157249E-04
82 8.4255165E-04 -4.3579479E-04
83 7.5789792E-04 -4.1089690E-04
84 6.7812817E-04 -3.8696979E-04
85 6.0303950E-04 -3.6410018E-04
86 5.3241208E-04 -3.4237083E-04
87 4.6600992E-04 -3.2186025E-04
88 4.0358221E-04 -3.0263621E-04
89 3.4486624E-04 -2.8475006E-04
90 2.8958791E-04 -2.6823698E-04
91 2.3747558E-04 -2.5312011E-04
92 1.8824632E-04 -2.3940641E-04
93 1.4161981E-04 -2.2709082E-04
94 9.7318009E-05 -2.1615502E-04
95 5.5068003E-05 -2.0656618E-04
96 1.4604911E-05 -1.9827674E-04
97 -2.4325241E-05 -1.9122550E-04
98 -6.1962993E-05 -1.8533983E-04
99 -9.8533395E-05 -1.8053750E-04
100 -1.3424415E-04 -1.7672751E-04
101 -1.6928397E-04 -1.7381107E-04
102 -2.0382106E-04 -1.7168192E-04
103 -2.3800335E-04 -1.7022642E-04
104 -2.7195021E-04 -1.6932399E-04
105 -3.0576130E-04 -1.6884678E-04
106 -3.3950829E-04 -1.6866002E-04
107 -3.7323353E-04 -1.6862198E-04

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                                                                                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

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0_L
ELEMENT TYPE   5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT   TIME   IS   3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-2.0133E-02	0.000	0.000	0.4686	4.640	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2466	-1.9837E-02	3.800	1.233	4.322	6.662	UL-RL	1.4407E+04	-0.2000	0.000	
1.000	1.000	1.233	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.4496	-1.9541E-02	7.600	2.248	8.178	8.677	UL-RL	1.4407E+04	-0.4000	0.000	
1.000	1.000	2.248	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.6524	-1.9244E-02	11.40	3.262	12.04	10.68	UL-RL	1.4407E+04	-0.6000	0.000	
1.000	1.000	3.262	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.8551	-1.8948E-02	15.20	4.276	15.90	12.68	UL-RL	1.4407E+04	-0.8000	0.000	
1.000	1.000	4.276	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.058	-1.8652E-02	19.00	5.289	19.76	14.68	UL-RL	1.4407E+04	-1.000	0.000	
1.000	1.000	5.289	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.261	-1.8356E-02	22.80	6.303	23.63	16.66	UL-RL	1.4407E+04	-1.200	0.000	
1.000	1.000	6.303	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.463	-1.8059E-02	26.60	7.316	27.50	18.64	UL-RL	1.4407E+04	-1.400	0.000	
1.000	1.000	7.316	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	1.666	-1.7763E-02	30.40	8.330	31.37	20.62	UL-RL	1.4407E+04	-1.600	0.000	
1.000	1.000	8.330	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	1.869	-1.7467E-02	34.20	9.344	35.24	22.58	UL-RL	1.4407E+04	-1.800	0.000	
1.000	1.000	9.344	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.071	-1.7171E-02	38.00	10.36	39.12	24.54	UL-RL	1.4407E+04	-2.000	0.000	
1.000	1.000	10.36	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.274	-1.6875E-02	41.80	11.37	42.99	26.49	UL-RL	1.4407E+04	-2.200	0.000	
1.000	1.000	11.37	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	2.477	-1.6579E-02	45.60	12.38	46.87	28.44	UL-RL	1.4407E+04	-2.400	0.000	
1.000	1.000	12.38	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	2.680	-1.6284E-02	49.40	13.40	50.75	30.38	UL-RL	1.4407E+04	-2.600	0.000	
1.000	1.000	13.40	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	2.882	-1.5988E-02	53.20	14.41	54.63	32.32	UL-RL	1.4407E+04	-2.800	0.000	
1.000	1.000	14.41	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	3.085	-1.5693E-02	57.00	15.43	58.51	34.25	UL-RL	1.4407E+04	-3.000	0.000	
1.000	1.000	15.43	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	3.288	-1.5398E-02	60.80	16.44	62.40	36.17	UL-RL	1.4407E+04	-3.200	0.000	
1.000	1.000	16.44	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.490	-1.5104E-02	64.60	17.45	66.28	38.09	UL-RL	1.4407E+04	-3.400	0.000	
1.000	1.000	17.45	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.693	-1.4809E-02	68.40	18.47	70.17	40.01	UL-RL	1.4407E+04	-3.600	0.000	
1.000	1.000	18.47	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.896	-1.4515E-02	72.20	19.48	74.05	41.92	UL-RL	1.4407E+04	-3.800	0.000	
1.000	1.000	19.48	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	10.07	-1.4222E-02	76.00	50.35	77.94	50.38	UL-RL	2.6488E+04	-4.000	0.000	
1.000	1.000	50.35	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	10.60	-1.3929E-02	79.80	53.01	81.82	53.06	UL-RL	2.6488E+04	-4.200	0.000	

1.000	1.000	53.01	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	11.13	-1.3636E-02	83.60	55.67	85.71	55.73	UL-RL 2.6488E+04	-4.400	0.000
1.000	1.000	55.67	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	11.67	-1.3344E-02	87.40	58.33	89.60	58.41	UL-RL 2.6488E+04	-4.600	0.000
1.000	1.000	58.33	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	12.20	-1.3053E-02	91.20	60.99	93.48	61.09	UL-RL 2.6488E+04	-4.800	0.000
1.000	1.000	60.99	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	12.73	-1.2762E-02	95.00	63.64	97.37	63.77	UL-RL 2.6488E+04	-5.000	0.000
1.000	1.000	63.64	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	13.26	-1.2473E-02	98.80	66.30	101.3	66.44	UL-RL 2.6488E+04	-5.200	0.000
1.000	1.000	66.30	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	13.79	-1.2185E-02	102.6	68.96	105.1	69.12	UL-RL 2.6488E+04	-5.400	0.000
1.000	1.000	68.96	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	14.32	-1.1897E-02	106.4	71.62	109.0	71.80	UL-RL 2.6488E+04	-5.600	0.000
1.000	1.000	71.62	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	14.86	-1.1612E-02	110.2	74.28	112.9	74.48	UL-RL 2.6488E+04	-5.800	0.000
1.000	1.000	74.28	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.46	-1.1327E-02	112.9	76.16	115.7	76.38	UL-RL 2.6488E+04	-6.000	1.127
1.000	1.000	77.29	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.11	-1.1044E-02	114.7	77.45	117.6	77.68	UL-RL 2.6488E+04	-6.200	3.114
1.000	1.000	80.56	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	16.77	-1.0763E-02	116.5	78.74	119.5	78.99	UL-RL 2.6488E+04	-6.400	5.101
1.000	1.000	83.84	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	17.42	-1.0484E-02	118.3	80.03	121.4	80.29	UL-RL 2.6488E+04	-6.600	7.089
1.000	1.000	87.11	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	18.08	-1.0206E-02	120.1	81.31	123.2	81.60	UL-RL 2.6488E+04	-6.800	9.076
1.000	1.000	90.39	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	18.73	-9.9306E-03	121.9	82.60	125.1	82.90	UL-RL 2.6488E+04	-7.000	11.06
1.000	1.000	93.66	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	19.39	-9.6570E-03	123.7	83.89	127.0	84.21	UL-RL 2.6488E+04	-7.200	13.05
1.000	1.000	96.94	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	20.04	-9.3856E-03	125.6	85.17	128.9	85.51	UL-RL 2.6488E+04	-7.400	15.04
1.000	1.000	100.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	20.70	-9.1163E-03	127.4	86.46	130.8	86.81	UL-RL 2.6488E+04	-7.600	17.03
1.000	1.000	103.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	21.35	-8.8494E-03	129.2	87.74	132.7	88.11	UL-RL 2.6488E+04	-7.800	19.01
1.000	1.000	106.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	22.00	-8.5847E-03	131.0	89.02	134.6	89.41	UL-RL 2.6488E+04	-8.000	21.00
1.000	1.000	110.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.66	-8.3224E-03	132.8	90.31	136.5	90.71	UL-RL 2.6488E+04	-8.200	22.99
1.000	1.000	113.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.31	-8.0626E-03	134.6	91.59	138.4	92.01	UL-RL 2.6488E+04	-8.400	24.97
1.000	1.000	116.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.97	-7.8053E-03	136.4	92.87	140.2	93.31	UL-RL 2.6488E+04	-8.600	26.96
1.000	1.000	119.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	24.62	-7.5506E-03	138.3	94.15	142.1	94.61	UL-RL 2.6488E+04	-8.800	28.95
1.000	1.000	123.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	25.29	-7.2985E-03	140.1	95.52	144.2	96.05	UL-RL 2.6488E+04	-9.000	30.94
1.000	1.000	126.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	25.97	-7.0491E-03	141.9	96.90	146.3	97.51	UL-RL 2.6488E+04	-9.200	32.92
1.000	1.000	129.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	26.64	-6.8025E-03	143.7	98.28	148.4	98.96	UL-RL 2.6488E+04	-9.400	34.91
1.000	1.000	133.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	27.31	-6.5588E-03	145.5	99.65	150.5	100.4	UL-RL 2.6488E+04	-9.600	36.90
1.000	1.000	136.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	27.98	-6.3179E-03	147.3	101.0	152.6	101.8	UL-RL 2.6488E+04	-9.800	38.89
1.000	1.000	139.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	28.65	-6.0801E-03	149.1	102.4	154.7	103.3	UL-RL 2.6488E+04	-10.00	40.87
1.000	1.000	143.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	29.32	-5.8453E-03	150.9	103.7	156.8	104.7	UL-RL 2.6488E+04	-10.20	42.86
1.000	1.000	146.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	29.99	-5.6137E-03	152.8	105.1	158.9	106.1	UL-RL 2.6488E+04	-10.40	44.85
1.000	1.000	150.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	30.66	-5.3854E-03	154.6	106.5	160.9	107.6	UL-RL 2.6488E+04	-10.60	46.83
1.000	1.000	153.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	31.33	-5.1604E-03	156.4	107.8	163.0	109.0	UL-RL 2.6488E+04	-10.80	48.82
1.000	1.000	156.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	32.00	-4.9389E-03	158.2	109.2	165.1	110.4	UL-RL 2.6488E+04	-11.00	50.81
1.000	1.000	160.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	32.66	-4.7211E-03	160.0	110.5	167.1	111.8	UL-RL 2.6488E+04	-11.20	52.80
1.000	1.000	163.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	33.33	-4.5069E-03	161.8	111.9	169.2	113.2	UL-RL 2.6488E+04	-11.40	54.78
1.000	1.000	166.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	34.00	-4.2967E-03	163.6	113.2	171.2	114.6	UL-RL 2.6488E+04	-11.60	56.77
1.000	1.000	170.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
60 D	34.66	-4.0905E-03	165.4	114.6	173.2	116.0	UL-RL 2.6488E+04	-11.80	58.76
1.000	1.000	173.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
61 D	35.33	-3.8884E-03	167.3	115.9	175.3	117.4	UL-RL 2.6488E+04	-12.00	60.75
1.000	1.000	176.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
62 D	29.25	-3.6908E-03	169.2	83.51	177.4	88.76	UL-RL 9.4545E+04	-12.20	62.73
1.000	1.000	146.2	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
63 D	29.89	-3.4977E-03	171.3	84.73	179.8	89.76	UL-RL 9.4545E+04	-12.40	64.72
1.000	1.000	149.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
64 D	30.53	-3.3093E-03	173.4	85.95	182.1	90.76	UL-RL 9.4545E+04	-12.60	66.71
1.000	1.000	152.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
65 D	31.17	-3.1258E-03	175.5	87.16	184.4	91.77	UL-RL 9.4545E+04	-12.80	68.70
1.000	1.000	155.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
66 D	31.81	-2.9473E-03	177.6	88.38	186.7	92.77	UL-RL 9.4545E+04	-13.00	70.68
1.000	1.000	159.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
67 D	32.45	-2.7740E-03	179.7	89.60	189.0	93.77	UL-RL 9.4545E+04	-13.20	72.67
1.000	1.000	162.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
68 D	33.09	-2.6059E-03	181.9	90.81	191.3	94.78	UL-RL 9.4545E+04	-13.40	74.66
1.000	1.000	165.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
69 D	33.73	-2.4433E-03	184.0	92.03	193.6	95.78	UL-RL 9.4545E+04	-13.60	76.64
1.000	1.000	168.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
70 D	34.37	-2.2861E-03	186.1	93.24	195.9	96.79	UL-RL 9.4545E+04	-13.80	78.63
1.000	1.000	171.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
71 D	35.01	-2.1344E-03	188.2	94.45	198.2	97.80	UL-RL 9.4545E+04	-14.00	80.62
1.000	1.000	175.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
72 D	22.22	-1.9884E-03	190.5	28.47	200.7	98.88	UL-RL 1.2392E+05	-14.20	82.61
1.000	1.000	111.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
73 D	22.87	-1.8482E-03	193.0	29.74	203.4	100.1	UL-RL 1.2392E+05	-14.40	84.59
1.000	1.000	114.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
74 D	23.52	-1.7137E-03	195.5	31.00	206.1	101.3	UL-RL 1.2392E+05	-14.60	86.58
1.000	1.000	117.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
75 D	24.17	-1.5850E-03	198.0	32.27	208.8	102.5	UL-RL 1.2392E+05	-14.80	88.57
1.000	1.000	120.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
76 D	24.82	-1.4620E-03	200.5	33.54	211.4	103.7	UL-RL 1.2392E+05	-15.00	90.56
1.000	1.000	124.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
77 D	25.47	-1.3449E-03	203.0	34.80	214.1	104.9	UL-RL 1.2392E+05	-15.20	92.54
1.000	1.000	127.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
78 D	26.12	-1.2334E-03	205.5	36.07	216.8	106.1	UL-RL 1.2392E+05	-15.40	94.53
1.000	1.000	130.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
79 D	26.77	-1.1276E-03	208.1	37.34	219.5	107.3	UL-RL 1.2392E+05	-15.60	96.52
1.000	1.000	133.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
80 D	27.42	-1.0272E-03	210.6	38.61	222.2	108.6	UL-RL 1.2392E+05	-15.80	98.50
1.000	1.000	137.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
81 D	28.07	-9.3227E-04	213.1	39.88	224.8	109.8	UL-RL 1.2392E+05	-16.00	100.5
1.000	1.000	140.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
82 D	28.73	-8.4255E-04	215.6	41.15	227.5	111.0	UL-RL 1.2392E+05	-16.20	102.5
1.000	1.000	143.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
83 D	29.38	-7.5790E-04	218.1	42.42	230.2	112.2	UL-RL 1.2392E+05	-16.40	104.5
1.000	1.000	146.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	30.03	-6.7813E-04	220.6	43.69	232.8	113.4	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	150.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.67	-6.0304E-04	223.1	44.91	235.3	114.6	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	153.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.44	-5.3241E-04	225.7	46.79	237.7	115.8	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	157.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.73	-4.6601E-04	228.2	56.25	240.2	117.0	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	168.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	35.93	-4.0358E-04	230.7	65.22	242.6	118.3	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	179.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.02	-3.4487E-04	233.2	73.73	245.1	119.5	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	190.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.04	-2.8959E-04	235.7	81.81	247.5	120.7	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	200.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	41.97	-2.3748E-04	238.2	89.50	250.0	121.9	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	209.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	43.84	-1.8825E-04	240.7	96.84	252.4	123.1	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	219.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.64	-1.4162E-04	243.2	103.8	254.9	124.3	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	228.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.38	-9.7318E-05	245.8	110.6	257.3	125.6	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	236.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.07	-5.5068E-05	248.3	117.0	259.8	126.8	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	245.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.62	-1.4605E-05	250.8	122.8	262.2	128.2	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	253.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.80	2.4325E-05	253.3	126.7	264.7	130.5	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	259.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	52.97	6.1963E-05	255.8	130.6	267.1	132.8	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	264.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	53.98	9.8533E-05	258.3	133.7	269.6	135.3	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	269.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	54.94	1.3424E-04	260.8	136.5	272.1	138.0	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	274.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	55.90	1.6928E-04	263.3	139.2	274.5	140.6	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	279.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	56.84	2.0382E-04	265.9	142.0	277.0	143.2	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	284.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.77	2.3800E-04	268.4	144.6	279.4	145.9	UL-RL	1.2392E+05	-20.40	144.2
1.000	1.000	288.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.69	2.7195E-04	270.9	147.3	281.9	148.5	UL-RL	1.2392E+05	-20.60	146.2
1.000	1.000	293.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.61	3.0576E-04	273.4	149.9	284.3	151.1	UL-RL	1.2392E+05	-20.80	148.2
1.000	1.000	298.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.54	3.3951E-04	275.9	152.5	286.8	153.7	UL-RL	1.2392E+05	-21.00	150.2
1.000	1.000	302.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.73	3.7323E-04	278.4	155.1	289.3	156.3	UL-RL	1.2392E+05	-21.20	152.2
1.000	1.000	307.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

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O_R :
ELEMENT TYPE   5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT   TIME   IS   3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
TOR	UFACTOR	Peq	Su_a	Su_p	Cohe_a	Cohe_p	LAYER			ZFO	QS
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
21 D	1.160	1.4222E-02	0.000	5.799	0.000	6.171	UL-RL 2.1501E+04		-4.000	0.000	
1.000	1.000	5.799	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.968	1.3929E-02	3.800	14.84	3.800	15.21	UL-RL 2.1501E+04		-4.200	0.000	
1.000	1.000	14.84	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.776	1.3636E-02	7.600	23.88	7.600	24.26	UL-RL 2.1501E+04		-4.400	0.000	
1.000	1.000	23.88	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.585	1.3344E-02	11.40	32.92	11.40	33.30	UL-RL 2.1501E+04		-4.600	0.000	
1.000	1.000	32.92	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.393	1.3053E-02	15.20	41.97	15.20	42.35	UL-RL 2.1501E+04		-4.800	0.000	
1.000	1.000	41.97	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.20	1.2762E-02	19.00	51.01	19.00	51.39	UL-RL 2.1501E+04		-5.000	0.000	
1.000	1.000	51.01	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.01	1.2473E-02	22.80	60.05	22.80	60.43	UL-RL 2.1501E+04		-5.200	0.000	
1.000	1.000	60.05	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.82	1.2185E-02	26.60	69.09	26.60	69.48	UL-RL 2.1501E+04		-5.400	0.000	
1.000	1.000	69.09	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.63	1.1897E-02	30.40	78.13	30.40	78.52	UL-RL 2.1501E+04	-5.600	0.000
1.000	1.000	78.13	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	17.43	1.1612E-02	34.20	87.17	34.20	87.57	UL-RL 2.1501E+04	-5.800	0.000
1.000	1.000	87.17	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.24	1.1327E-02	38.00	96.21	38.00	96.61	UL-RL 2.1501E+04	-6.000	0.000
1.000	1.000	96.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.72	1.1044E-02	40.59	102.4	40.59	102.8	UL-RL 2.1501E+04	-6.200	1.211
1.000	1.000	103.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.38	1.0763E-02	42.38	103.7	42.38	104.1	UL-RL 2.1501E+04	-6.400	3.223
1.000	1.000	106.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	21.55	1.0484E-02	44.16	102.5	44.16	102.9	UL-RL 2.1501E+04	-6.600	5.236
1.000	1.000	107.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	21.73	1.0206E-02	45.95	101.4	45.95	101.8	UL-RL 2.1501E+04	-6.800	7.249
1.000	1.000	108.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	21.91	9.9306E-03	47.74	100.3	47.74	100.7	UL-RL 2.1501E+04	-7.000	9.261
1.000	1.000	109.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	22.09	9.6570E-03	49.53	99.15	49.53	99.56	UL-RL 2.1501E+04	-7.200	11.27
1.000	1.000	110.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.27	9.3856E-03	51.31	98.06	51.31	98.47	UL-RL 2.1501E+04	-7.400	13.29
1.000	1.000	111.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	22.46	9.1163E-03	53.10	96.98	53.10	97.39	UL-RL 2.1501E+04	-7.600	15.30
1.000	1.000	112.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	22.64	8.8494E-03	54.89	95.91	54.89	96.33	UL-RL 2.1501E+04	-7.800	17.31
1.000	1.000	113.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	22.84	8.5847E-03	56.68	94.86	56.68	95.28	UL-RL 2.1501E+04	-8.000	19.32
1.000	1.000	114.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	23.03	8.3224E-03	58.46	93.82	58.46	94.24	UL-RL 2.1501E+04	-8.200	21.34
1.000	1.000	115.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.23	8.0626E-03	60.25	92.81	60.25	93.23	UL-RL 2.1501E+04	-8.400	23.35
1.000	1.000	116.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.43	7.8053E-03	62.04	91.80	62.04	92.23	UL-RL 2.1501E+04	-8.600	25.36
1.000	1.000	117.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	23.64	7.5506E-03	63.82	90.82	63.82	91.24	UL-RL 2.1501E+04	-8.800	27.38
1.000	1.000	118.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	23.85	7.2985E-03	65.61	89.86	65.61	90.28	UL-RL 2.1501E+04	-9.000	29.39
1.000	1.000	119.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	24.06	7.0491E-03	67.40	88.91	67.40	89.33	UL-RL 2.1501E+04	-9.200	31.40
1.000	1.000	120.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	24.28	6.8025E-03	69.19	87.98	69.19	88.41	UL-RL 2.1501E+04	-9.400	33.41
1.000	1.000	121.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	24.50	6.5588E-03	70.97	87.08	70.97	87.50	UL-RL 2.1501E+04	-9.600	35.43
1.000	1.000	122.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	24.73	6.3179E-03	72.76	86.19	72.76	86.61	UL-RL 2.1501E+04	-9.800	37.44
1.000	1.000	123.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	24.96	6.0801E-03	74.55	85.33	74.55	85.75	UL-RL 2.1501E+04	-10.00	39.45
1.000	1.000	124.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	25.19	5.8453E-03	76.34	84.49	76.34	84.90	UL-RL 2.1501E+04	-10.20	41.46
1.000	1.000	126.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	25.43	5.6137E-03	78.12	83.67	78.12	84.08	UL-RL 2.1501E+04	-10.40	43.48
1.000	1.000	127.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	25.67	5.3854E-03	79.91	82.87	79.91	83.29	UL-RL 2.1501E+04	-10.60	45.49
1.000	1.000	128.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	25.92	5.1604E-03	81.70	82.10	81.70	82.51	UL-RL 2.1501E+04	-10.80	47.50
1.000	1.000	129.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	26.17	4.9389E-03	83.48	81.35	83.48	81.76	UL-RL 2.1501E+04	-11.00	49.52
1.000	1.000	130.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	26.43	4.7211E-03	85.27	80.63	85.27	81.04	UL-RL 2.1501E+04	-11.20	51.53
1.000	1.000	132.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	26.70	4.5069E-03	87.06	79.94	87.06	80.34	UL-RL 2.1501E+04	-11.40	53.54
1.000	1.000	133.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	26.97	4.2967E-03	88.85	79.28	88.85	79.67	UL-RL 2.1501E+04	-11.60	55.55
1.000	1.000	134.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	27.24	4.0905E-03	90.63	78.64	90.63	79.03	UL-RL	2.1501E+04	-11.80	57.57
1.000	1.000	136.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	27.52	3.8884E-03	92.42	78.04	92.42	78.42	UL-RL	2.1501E+04	-12.00	59.58
1.000	1.000	137.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.89	3.6908E-03	94.33	137.8	94.33	139.1	UL-RL	7.1008E+04	-12.20	61.59
1.000	1.000	199.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.57	3.4977E-03	96.42	134.3	96.42	135.5	UL-RL	7.1008E+04	-12.40	63.60
1.000	1.000	197.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	39.29	3.3093E-03	98.50	130.8	98.50	132.0	UL-RL	7.1008E+04	-12.60	65.62
1.000	1.000	196.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	39.02	3.1258E-03	100.6	127.5	100.6	128.7	UL-RL	7.1008E+04	-12.80	67.63
1.000	1.000	195.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	38.78	2.9473E-03	102.7	124.2	102.7	125.5	UL-RL	7.1008E+04	-13.00	69.64
1.000	1.000	193.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.56	2.7740E-03	104.8	121.1	104.8	122.3	UL-RL	7.1008E+04	-13.20	71.65
1.000	1.000	192.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	38.37	2.6059E-03	106.9	118.2	106.9	119.3	UL-RL	7.1008E+04	-13.40	73.67
1.000	1.000	191.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	38.20	2.4433E-03	108.9	115.3	108.9	116.5	UL-RL	7.1008E+04	-13.60	75.68
1.000	1.000	191.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.06	2.2861E-03	111.0	112.6	111.0	113.7	UL-RL	7.1008E+04	-13.80	77.69
1.000	1.000	190.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	37.95	2.1344E-03	113.1	110.0	113.1	111.1	UL-RL	7.1008E+04	-14.00	79.71
1.000	1.000	189.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	40.75	1.9884E-03	115.4	122.0	115.4	123.5	UL-RL	9.3069E+04	-14.20	81.72
1.000	1.000	203.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	40.53	1.8482E-03	117.8	118.9	117.8	120.3	UL-RL	9.3069E+04	-14.40	83.73
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	40.33	1.7137E-03	120.3	115.9	120.3	117.4	UL-RL	9.3069E+04	-14.60	85.74
1.000	1.000	201.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	40.18	1.5850E-03	122.8	113.1	122.8	114.5	UL-RL	9.3069E+04	-14.80	87.76
1.000	1.000	200.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.06	1.4620E-03	125.3	110.5	125.3	111.9	UL-RL	9.3069E+04	-15.00	89.77
1.000	1.000	200.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	39.98	1.3449E-03	127.8	108.1	127.8	109.5	UL-RL	9.3069E+04	-15.20	91.78
1.000	1.000	199.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	39.93	1.2334E-03	130.3	105.9	130.3	107.2	UL-RL	9.3069E+04	-15.40	93.79
1.000	1.000	199.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	39.92	1.1276E-03	132.8	103.8	132.8	105.1	UL-RL	9.3069E+04	-15.60	95.81
1.000	1.000	199.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	39.94	1.0272E-03	135.3	101.9	135.3	103.2	UL-RL	9.3069E+04	-15.80	97.82
1.000	1.000	199.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	39.99	9.3227E-04	137.7	100.1	137.7	101.5	UL-RL	9.3069E+04	-16.00	99.83
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	40.08	8.4255E-04	140.2	98.55	140.2	99.87	UL-RL	9.3069E+04	-16.20	101.8
1.000	1.000	200.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.20	7.5790E-04	142.7	97.13	142.7	98.44	UL-RL	9.3069E+04	-16.40	103.9
1.000	1.000	201.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	40.35	6.7813E-04	145.2	95.86	145.2	97.16	UL-RL	9.3069E+04	-16.60	105.9
1.000	1.000	201.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	40.52	6.0304E-04	147.7	94.74	147.7	96.03	UL-RL	9.3069E+04	-16.80	107.9
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	40.73	5.3241E-04	150.2	93.75	150.2	95.04	UL-RL	9.3069E+04	-17.00	109.9
1.000	1.000	203.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	40.96	4.6601E-04	152.7	92.90	152.7	94.18	UL-RL	9.3069E+04	-17.20	111.9
1.000	1.000	204.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	41.22	4.0358E-04	155.2	92.17	155.2	93.44	UL-RL	9.3069E+04	-17.40	113.9
1.000	1.000	206.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	41.50	3.4487E-04	157.6	91.56	157.6	92.82	UL-RL	9.3069E+04	-17.60	115.9
1.000	1.000	207.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	41.80	2.8959E-04	160.1	91.05	160.1	92.30	UL-RL	9.3069E+04	-17.80	117.9

1.000	1.000	209.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.12	2.3748E-04	162.6	90.64	162.6	91.89	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	210.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.46	1.8825E-04	165.1	90.32	165.1	91.56	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	212.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.55	1.4162E-04	167.6	88.77	167.6	91.97	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	212.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.46	9.7318E-05	170.1	86.31	170.1	92.96	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	212.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.40	5.5068E-05	172.6	84.00	172.6	93.95	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.37	1.4605E-05	175.1	81.82	175.1	94.97	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	211.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.36	-2.4325E-05	177.5	79.77	177.5	95.99	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	211.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.37	-6.1963E-05	180.0	77.82	180.0	97.03	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	211.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.40	-9.8533E-05	182.5	75.95	182.5	98.07	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.44	-1.3424E-04	185.0	74.15	185.0	99.13	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	212.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.50	-1.6928E-04	187.5	72.40	187.5	100.2	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	212.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.56	-2.0382E-04	190.0	70.69	190.0	101.2	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	212.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.62	-2.3800E-04	192.5	69.00	192.5	102.3	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	213.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.69	-2.7195E-04	195.0	67.34	195.0	103.4	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	42.76	-3.0576E-04	197.4	65.69	197.4	104.4	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	213.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	42.84	-3.3951E-04	199.9	64.04	199.9	105.5	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	214.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.46	-3.7323E-04	202.4	62.40	202.4	106.6	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	214.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59           |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

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WallElement_11138 :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP  15
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.34102E-09	4.34102E-09	-4.34771E-10	3.06112E-10
2	0.24663	-0.24663	1.18962E-10	4.93263E-02
3	0.69625	-0.69625	-4.93263E-02	0.18858
4	1.3487	-1.3487	-0.18858	0.45831
5	2.2038	-2.2038	-0.45831	0.89907
6	3.2617	-3.2617	-0.89907	1.5514
7	4.5222	-4.5222	-1.5514	2.4558
8	5.9855	-5.9855	-2.4558	3.6529
9	7.6515	-7.6515	-3.6529	5.1832
10	9.5202	-9.5202	-5.1832	7.0873
11	11.592	-11.592	-7.0873	9.4056
12	13.866	-13.866	-9.4056	12.179
13	16.343	-16.343	-12.179	15.447
14	19.022	-19.022	-15.447	19.252
15	21.905	-21.905	-19.252	23.633

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:34:59                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP  91
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.990	-24.990	-23.633	28.631
2	28.277	-28.277	-28.631	34.286
3	31.768	-31.768	-34.286	40.640
4	35.461	-35.461	-40.640	47.732
5	39.357	-39.357	-47.732	55.603
6	48.267	-48.267	-55.603	65.257
7	55.901	-55.901	-65.257	76.437
8	62.258	-62.258	-76.437	88.888
9	67.338	-67.338	-88.888	102.36
10	71.142	-71.142	-102.36	116.58
11	73.670	-73.670	-116.58	131.32
12	74.920	-74.920	-131.32	146.30
13	74.895	-74.895	-146.30	161.28
14	73.593	-73.593	-161.28	176.00
15	71.014	-71.014	-176.00	190.20
16	67.229	-67.229	-190.20	203.65
17	62.624	-62.624	-203.65	216.17
18	58.014	-58.014	-216.17	227.78
19	53.885	-53.885	-227.78	238.55
20	50.236	-50.236	-238.55	248.60
21	47.063	-47.063	-248.60	258.01
22	44.365	-44.365	-258.01	266.89
23	42.137	-42.137	-266.89	275.31
24	40.378	-40.378	-275.31	283.39
25	39.084	-39.084	-283.39	291.21
26	38.252	-38.252	-291.21	298.86
27	37.879	-37.879	-298.86	306.43
28	37.960	-37.960	-306.43	314.02
29	38.493	-38.493	-314.02	321.72
30	39.473	-39.473	-321.72	329.62
31	40.916	-40.916	-329.62	337.80
32	42.819	-42.819	-337.80	346.36
33	45.178	-45.178	-346.36	355.40
34	47.987	-47.987	-355.40	365.00
35	51.241	-51.241	-365.00	375.24
36	54.937	-54.937	-375.24	386.23
37	59.069	-59.069	-386.23	398.05
38	63.631	-63.631	-398.05	410.77
39	68.619	-68.619	-410.77	424.50
40	74.027	-74.027	-424.50	439.30
41	79.849	-79.849	-439.30	455.27
42	86.081	-86.081	-455.27	472.49
43	92.715	-92.715	-472.49	491.03
44	99.746	-99.746	-491.03	510.98
45	107.17	-107.17	-510.98	532.41
46	114.97	-114.97	-532.41	555.41
47	104.34	-104.34	-555.41	576.27
48	94.650	-94.650	-576.27	595.20
49	85.895	-85.895	-595.20	612.38
50	78.047	-78.047	-612.38	627.99
51	71.082	-71.082	-627.99	642.21
52	64.975	-64.975	-642.21	655.20
53	59.701	-59.701	-655.20	667.14
54	55.234	-55.234	-667.14	678.19
55	51.548	-51.548	-678.19	688.50
56	48.617	-48.617	-688.50	698.22
57	30.080	-30.080	-698.22	704.24
58	12.421	-12.421	-704.24	706.72
59	-4.3964	4.3964	-706.72	705.85
60	-20.409	20.409	-705.85	701.76
61	-35.651	35.651	-701.76	694.63
62	-50.159	50.159	-694.63	684.60
63	-63.968	63.968	-684.60	671.81
64	-77.113	77.113	-671.81	656.39
65	-89.628	89.628	-656.39	638.46
66	-101.55	101.55	-638.46	618.15
67	-112.90	112.90	-618.15	595.57
68	-123.72	123.72	-595.57	570.83
69	-134.04	134.04	-570.83	544.02
70	-143.89	143.89	-544.02	515.24

71	-153.18	153.18	-515.24	484.61
72	-160.40	160.40	-484.61	452.53
73	-165.70	165.70	-452.53	419.39
74	-169.17	169.17	-419.39	385.55
75	-170.93	170.93	-385.55	351.37
76	-171.08	171.08	-351.37	317.15
77	-169.70	169.70	-317.15	283.21
78	-166.61	166.61	-283.21	249.89
79	-161.69	161.69	-249.89	217.55
80	-155.02	155.02	-217.55	186.54
81	-146.77	146.77	-186.54	157.19
82	-137.33	137.33	-157.19	129.72
83	-126.73	126.73	-129.72	104.38
84	-115.15	115.15	-104.38	81.350
85	-102.65	102.65	-81.350	60.821
86	-89.247	89.247	-60.821	42.971
87	-74.964	74.964	-42.971	27.978
88	-59.820	59.820	-27.978	16.014
89	-43.822	43.822	-16.014	7.2493
90	-26.973	26.973	-7.2493	1.8547
91	-9.2741	9.2741	-1.8547	5.26460E-12

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|          ParatiePlus                                                                           |
|          Exe Time :28 January 2022  15:34:59                                               |
+-----+
```

F I N A L I N C R E M E N T A L A N A L Y S I S

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	6
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	2

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME ... 0.06 [sec]

DATABASE CREATION CPU TIME..... 0.20 [sec]

8.7. Design Assumption : A2+M2+R1 - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A2+M2+R1
* Time:venerdi 28 gennaio 2022 15:35:00
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_36 0 -21.2 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_36 -21.2 0 1 0
SOIL 0_R LeftWall_36 -21.2 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Rilevato_76031_14_L_0)
*
LDATA Rilevato_76031_14_L_0 15 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 35 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 40000 40000
ENDL
*
* Soil Profile (Ala_76024_15_L_0)
*
LDATA Ala_76024_15_L_0 -4 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 2 25 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 30000 90000
ENDL
*
* Soil Profile (Salt_175_16_L_0)
*
LDATA Salt_175_16_L_0 -12.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 20.5 10.5 10
PERMEABILITY 1E-05
RESISTANCE 10 27 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 1.03E+05 3.09E+05
ENDL
*
* Soil Profile (Pa_37608_76032_L_0)
*
LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 22.5 12.5 10
PERMEABILITY 1E-05
RESISTANCE 50 27 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 1.35E+05 4.05E+05
ENDL

* 5: Defining structural materials
* Steel material: 114 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_114 2.06E+08
* Concrete material: 112 Name=C32/40 E=33345800 kPa
MATERIAL C3240_112 3.3346E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
** rev 2021 and later
BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0

* 6.2: Supports
```

```

* 6.3: Strips
STRIP LeftWall_36 1 1 11.4 9.9 4.7 52 45

* 7: Defining Steps
STEP Finale_40504
CHANGE Rilevato_76031_14_L_0 U-FRICT=29.256 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-FRICT=29.256 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KA=0.348 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KP=6.227 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KA=0.3 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KP=4.102 LeftWall_36
CHANGE Ala_76024_15_L_0 U-FRICT=20.458 LeftWall_36
CHANGE Ala_76024_15_L_0 D-FRICT=20.458 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KA=0.878 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KP=3.27 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KA=0.385 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KP=1.894 LeftWall_36
CHANGE Salt_175_16_L_0 U-FRICT=22.177 LeftWall_36
CHANGE Salt_175_16_L_0 D-FRICT=22.177 LeftWall_36
CHANGE Salt_175_16_L_0 U-KA=0.858 LeftWall_36
CHANGE Salt_175_16_L_0 U-KP=3.542 LeftWall_36
CHANGE Salt_175_16_L_0 D-KA=0.36 LeftWall_36
CHANGE Salt_175_16_L_0 D-KP=2.063 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-FRICT=22.177 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-FRICT=22.177 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KA=0.718 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KP=3.357 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KA=0.36 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KP=2.098 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 U-COHE=1.6 LeftWall_36
CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 D-COHE=1.6 LeftWall_36
CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 U-COHE=8 LeftWall_36
CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 D-COHE=8 LeftWall_36
CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-COHE=40 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-COHE=40 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ADD WallElement_11138 WallElement_New_75260
ENDSTEP

STEP StageA_205794
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

STEP Sisma_79386
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

```

8.8. Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```

+-----+
|                PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
|                |                |                |                |                |                |                |
+-----+

*****
*
*   PARATIE PLUS Non-Linear Spring Engine
*
*   AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
*   FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
*   Written by CEAS s.r.l. (ITALY)
*   with the scientific supervision of
*   Roberto Nova - full professor SOIL MECHANICS
*

```

```
*          at Politecnico di Milano (ITALY)          *
*
*****
*
* RELEASE  2022.0.0   *Build date:Sep 13, 2021*      *
*
*
* CEAS S.R.L VIALE  GIUSTINIANO 10                  *
*              20129  M I L A N O  (ITALIA)         *
* TEL.        +39 02 2020221                          *
*
* email      bruno.becci@ceas.it                      *
* Web Page   www.ceas.it      www.paratieplus.com    *
*****
```

JOB : ParatiePlus

STARTING

```
ACCEPTED <FILE,GENW                                     >
ACCEPTED <FILE,PLOTTER,BINARY                           >
ACCEPTED <SOLVE TOTAL_STRESS                             >
ACCEPTED <PARAM ITEMPAX 40                               >
ACCEPTED <CONTROL CONTACT LAGRANGE                       >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001                 >
```

```
*****
*
* WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED *
* BY THE PROGRAM.                                     *
*****
```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]


```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                   |
|                                                                                               Exe Time :28 January 2022   15:35:00                                                                 |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 107
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 214
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 109
NO. OF LONG NAMES (LASTNAME) ..... 17
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
MAX INELASTIC DISPL. TABLE LENGTH..... 0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

```

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F

```

RELEVANT ITEMS UNITS

```

STRESSES                kPa
Y-DISPLACEMENTS        m
ROTATIONS                RADIANS
BEAM AND SLAB MOMENTS   kN*m/m
BEAM SHEAR FORCES       kN/m
ANCHOR FORCES           kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS    kN/m
Y-REACTIONS             kN/m
X-MOMENT REACTIONS      kN*m/m
ETC.

```



```
80 : CHANGE Ala_76024_15_L_0 U-COHE=1.6 LeftWall_36
81 : CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
82 : CHANGE Ala_76024_15_L_0 D-COHE=1.6 LeftWall_36
83 : CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
84 : CHANGE Salt_175_16_L_0 U-COHE=8 LeftWall_36
85 : CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
86 : CHANGE Salt_175_16_L_0 D-COHE=8 LeftWall_36
87 : CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
88 : CHANGE Pa_37608_76032_L_0 U-COHE=40 LeftWall_36
89 : CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
90 : CHANGE Pa_37608_76032_L_0 D-COHE=40 LeftWall_36
91 : CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
92 : SETWALL LeftWall_36
93 : GEOM 0 -4
94 : SURCHARGE 0 0 0 0
95 : WATER -5.8866 0.1931 -21.2 0 0
96 : ADD WallElement_11138 WallElement_New_75260
97 : ENDSTEP
98 : STEP StageA_205794
99 : SETWALL LeftWall_36
100 : GEOM 0 -4
101 : SURCHARGE 0 0 0 0
102 : WATER -5.8866 0.1931 -21.2 0 0
103 : ENDSTEP
104 : STEP Sisma_79386
105 : SETWALL LeftWall_36
106 : GEOM 0 -4
107 : SURCHARGE 0 0 0 0
108 : WATER -5.8866 0.1931 -21.2 0 0
109 : ENDSTEP
```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00                               |
+-----+

```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /
1	0.0000	0.0000 /	2	0.0000	-0.20000 /	3	0.0000	-0.40000 /	4	0.0000	-0.60000 /
5	0.0000	-0.80000 /	6	0.0000	-1.0000 /	7	0.0000	-1.2000 /	8	0.0000	-1.4000 /
9	0.0000	-1.6000 /	10	0.0000	-1.8000 /	11	0.0000	-2.0000 /	12	0.0000	-2.2000 /
13	0.0000	-2.4000 /	14	0.0000	-2.6000 /	15	0.0000	-2.8000 /	16	0.0000	-3.0000 /
17	0.0000	-3.2000 /	18	0.0000	-3.4000 /	19	0.0000	-3.6000 /	20	0.0000	-3.8000 /
21	0.0000	-4.0000 /	22	0.0000	-4.2000 /	23	0.0000	-4.4000 /	24	0.0000	-4.6000 /
25	0.0000	-4.8000 /	26	0.0000	-5.0000 /	27	0.0000	-5.2000 /	28	0.0000	-5.4000 /
29	0.0000	-5.6000 /	30	0.0000	-5.8000 /	31	0.0000	-6.0000 /	32	0.0000	-6.2000 /
33	0.0000	-6.4000 /	34	0.0000	-6.6000 /	35	0.0000	-6.8000 /	36	0.0000	-7.0000 /
37	0.0000	-7.2000 /	38	0.0000	-7.4000 /	39	0.0000	-7.6000 /	40	0.0000	-7.8000 /
41	0.0000	-8.0000 /	42	0.0000	-8.2000 /	43	0.0000	-8.4000 /	44	0.0000	-8.6000 /
45	0.0000	-8.8000 /	46	0.0000	-9.0000 /	47	0.0000	-9.2000 /	48	0.0000	-9.4000 /
49	0.0000	-9.6000 /	50	0.0000	-9.8000 /	51	0.0000	-10.0000 /	52	0.0000	-10.200 /
53	0.0000	-10.400 /	54	0.0000	-10.600 /	55	0.0000	-10.800 /	56	0.0000	-11.000 /
57	0.0000	-11.200 /	58	0.0000	-11.400 /	59	0.0000	-11.600 /	60	0.0000	-11.800 /
61	0.0000	-12.000 /	62	0.0000	-12.200 /	63	0.0000	-12.400 /	64	0.0000	-12.600 /
65	0.0000	-12.800 /	66	0.0000	-13.000 /	67	0.0000	-13.200 /	68	0.0000	-13.400 /
69	0.0000	-13.600 /	70	0.0000	-13.800 /	71	0.0000	-14.000 /	72	0.0000	-14.200 /
73	0.0000	-14.400 /	74	0.0000	-14.600 /	75	0.0000	-14.800 /	76	0.0000	-15.000 /
77	0.0000	-15.200 /	78	0.0000	-15.400 /	79	0.0000	-15.600 /	80	0.0000	-15.800 /
81	0.0000	-16.000 /	82	0.0000	-16.200 /	83	0.0000	-16.400 /	84	0.0000	-16.600 /
85	0.0000	-16.800 /	86	0.0000	-17.000 /	87	0.0000	-17.200 /	88	0.0000	-17.400 /
89	0.0000	-17.600 /	90	0.0000	-17.800 /	91	0.0000	-18.000 /	92	0.0000	-18.200 /
93	0.0000	-18.400 /	94	0.0000	-18.600 /	95	0.0000	-18.800 /	96	0.0000	-19.000 /
97	0.0000	-19.200 /	98	0.0000	-19.400 /	99	0.0000	-19.600 /	100	0.0000	-19.800 /
101	0.0000	-20.000 /	102	0.0000	-20.200 /	103	0.0000	-20.400 /	104	0.0000	-20.600 /
105	0.0000	-20.800 /	106	0.0000	-21.000 /	107	0.0000	-21.200 /			

39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	2	0.2000	0.000	0.000	0.000	1.000
42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	4	0.2000	0.000	0.000	0.000	1.000
73	73	4	0.2000	0.000	0.000	0.000	1.000
74	74	4	0.2000	0.000	0.000	0.000	1.000
75	75	4	0.2000	0.000	0.000	0.000	1.000
76	76	4	0.2000	0.000	0.000	0.000	1.000
77	77	4	0.2000	0.000	0.000	0.000	1.000
78	78	4	0.2000	0.000	0.000	0.000	1.000
79	79	4	0.2000	0.000	0.000	0.000	1.000
80	80	4	0.2000	0.000	0.000	0.000	1.000
81	81	4	0.2000	0.000	0.000	0.000	1.000
82	82	4	0.2000	0.000	0.000	0.000	1.000
83	83	4	0.2000	0.000	0.000	0.000	1.000
84	84	4	0.2000	0.000	0.000	0.000	1.000
85	85	4	0.2000	0.000	0.000	0.000	1.000
86	86	4	0.2000	0.000	0.000	0.000	1.000
87	87	4	0.2000	0.000	0.000	0.000	1.000
88	88	4	0.2000	0.000	0.000	0.000	1.000
89	89	4	0.2000	0.000	0.000	0.000	1.000
90	90	4	0.2000	0.000	0.000	0.000	1.000
91	91	4	0.2000	0.000	0.000	0.000	1.000
92	92	4	0.2000	0.000	0.000	0.000	1.000
93	93	4	0.2000	0.000	0.000	0.000	1.000
94	94	4	0.2000	0.000	0.000	0.000	1.000
95	95	4	0.2000	0.000	0.000	0.000	1.000
96	96	4	0.2000	0.000	0.000	0.000	1.000
97	97	4	0.2000	0.000	0.000	0.000	1.000
98	98	4	0.2000	0.000	0.000	0.000	1.000
99	99	4	0.2000	0.000	0.000	0.000	1.000
100	100	4	0.2000	0.000	0.000	0.000	1.000
101	101	4	0.2000	0.000	0.000	0.000	1.000
102	102	4	0.2000	0.000	0.000	0.000	1.000
103	103	4	0.2000	0.000	0.000	0.000	1.000
104	104	4	0.2000	0.000	0.000	0.000	1.000
105	105	4	0.2000	0.000	0.000	0.000	1.000
106	106	4	0.2000	0.000	0.000	0.000	1.000
107	107	4	0.1000	0.000	0.000	0.000	1.000

```

+-----+
|           PARATIEPLUS(TM)   NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021* |
|                                                                           |
|                               ParatiePlus                               |
|                               Exe Time :28 January 2022   15:35:00      |
+-----+

```

ELEMENT GROUP NO. 2

```

0_R
5 107 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0 0 0 0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1      active
2      active
3      active

```

```

material set no.  1

prop( 1) angle           180.000
prop( 2) layer as foreseen 1.00000

```

```

material set no.  2

prop( 1) angle           180.000
prop( 2) layer as foreseen 2.00000

```

```

material set no.  3

prop( 1) angle           180.000
prop( 2) layer as foreseen 3.00000

```

```

material set no.  4

prop( 1) angle           180.000
prop( 2) layer as foreseen 4.00000

```

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000

39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	2	0.2000	0.000	0.000	0.000	2.000
42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	4	0.2000	0.000	0.000	0.000	2.000
73	73	4	0.2000	0.000	0.000	0.000	2.000
74	74	4	0.2000	0.000	0.000	0.000	2.000
75	75	4	0.2000	0.000	0.000	0.000	2.000
76	76	4	0.2000	0.000	0.000	0.000	2.000
77	77	4	0.2000	0.000	0.000	0.000	2.000
78	78	4	0.2000	0.000	0.000	0.000	2.000
79	79	4	0.2000	0.000	0.000	0.000	2.000
80	80	4	0.2000	0.000	0.000	0.000	2.000
81	81	4	0.2000	0.000	0.000	0.000	2.000
82	82	4	0.2000	0.000	0.000	0.000	2.000
83	83	4	0.2000	0.000	0.000	0.000	2.000
84	84	4	0.2000	0.000	0.000	0.000	2.000
85	85	4	0.2000	0.000	0.000	0.000	2.000
86	86	4	0.2000	0.000	0.000	0.000	2.000
87	87	4	0.2000	0.000	0.000	0.000	2.000
88	88	4	0.2000	0.000	0.000	0.000	2.000
89	89	4	0.2000	0.000	0.000	0.000	2.000
90	90	4	0.2000	0.000	0.000	0.000	2.000
91	91	4	0.2000	0.000	0.000	0.000	2.000
92	92	4	0.2000	0.000	0.000	0.000	2.000
93	93	4	0.2000	0.000	0.000	0.000	2.000
94	94	4	0.2000	0.000	0.000	0.000	2.000
95	95	4	0.2000	0.000	0.000	0.000	2.000
96	96	4	0.2000	0.000	0.000	0.000	2.000
97	97	4	0.2000	0.000	0.000	0.000	2.000
98	98	4	0.2000	0.000	0.000	0.000	2.000
99	99	4	0.2000	0.000	0.000	0.000	2.000
100	100	4	0.2000	0.000	0.000	0.000	2.000
101	101	4	0.2000	0.000	0.000	0.000	2.000
102	102	4	0.2000	0.000	0.000	0.000	2.000
103	103	4	0.2000	0.000	0.000	0.000	2.000
104	104	4	0.2000	0.000	0.000	0.000	2.000
105	105	4	0.2000	0.000	0.000	0.000	2.000
106	106	4	0.2000	0.000	0.000	0.000	2.000
107	107	4	0.1000	0.000	0.000	0.000	2.000

48	63	64	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
49	64	65	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
50	65	66	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
51	66	67	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
52	67	68	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
53	68	69	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
54	69	70	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
55	70	71	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
56	71	72	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
57	72	73	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
58	73	74	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
59	74	75	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
60	75	76	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
61	76	77	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
62	77	78	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
63	78	79	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
64	79	80	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
65	80	81	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
66	81	82	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
67	82	83	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
68	83	84	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
69	84	85	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
70	85	86	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
71	86	87	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
72	87	88	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
73	88	89	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
74	89	90	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
75	90	91	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
76	91	92	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
77	92	93	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
78	93	94	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
79	94	95	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
80	95	96	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
81	96	97	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
82	97	98	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
83	98	99	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
84	99	100	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
85	100	101	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
86	101	102	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
87	102	103	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
88	103	104	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
89	104	105	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
90	105	106	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
91	106	107	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:35:00          |
+-----+
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```
NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5
```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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```

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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L O A D      B A L A N C E

STEP  1  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  1  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP  2  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  2  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP  3  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  3  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

```

LOAD INPUT SECTION COMPLETED

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
+-----+
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```
NO. OF LAYERS ..... 4
NO. OF DATA PER LAYER..... 160
```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO.	1	NAME	= 10.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= 15.000	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	= 29.256	WALL NO.	1
ITEM NO.	9	U-FRICT	= 35.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.34800	WALL NO.	1
ITEM NO.	11	U-KP	= 6.2270	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 40000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 40000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	= 29.256	WALL NO.	1
ITEM NO.	89	D-FRICT	= 35.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.30000	WALL NO.	1
ITEM NO.	91	D-KP	= 4.1020	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO.	1	NAME	= 11.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -4.0000	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 1.6000	WALL NO.	1
ITEM NO.	8	U-COHE	= 2.0000	WALL NO.	2
ITEM NO.	9	U-FRICT	= 20.458	WALL NO.	1
ITEM NO.	9	U-FRICT	= 25.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.87800	WALL NO.	1
ITEM NO.	11	U-KP	= 3.2700	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 30000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 90000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	= 1.6000	WALL NO.	1
ITEM NO.	88	D-COHE	= 2.0000	WALL NO.	2
ITEM NO.	89	D-FRICT	= 20.458	WALL NO.	1
ITEM NO.	89	D-FRICT	= 25.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.38500	WALL NO.	1
ITEM NO.	91	D-KP	= 1.8940	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO.	1	NAME	= 12.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -12.120	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 20.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 10.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 8.0000	WALL NO.	1
ITEM NO.	8	U-COHE	= 10.000	WALL NO.	2
ITEM NO.	9	U-FRICT	= 22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	= 27.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.85800	WALL NO.	1
ITEM NO.	11	U-KP	= 3.5420	WALL NO.	1

ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.10300E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.30900E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	58	U-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	60	U-TZDELTA	>= 25.000	(BOTH WALLS)	
ITEM NO.	61	U-TZALPHA	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	88	D-COHE	>= 10.000	WALL NO.	2
ITEM NO.	89	D-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	90	D-KA	>= 0.36000	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.0630	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	138	D-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	140	D-TZDELTA	>= 25.000	(BOTH WALLS)	
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 1

ITEM NO.	1	NAME	>= 13.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= -14.120	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 22.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 12.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	>= 40.000	WALL NO.	1
ITEM NO.	8	U-COHE	>= 50.000	WALL NO.	2
ITEM NO.	9	U-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	10	U-KA	>= 0.71800	WALL NO.	1
ITEM NO.	11	U-KP	>= 3.3570	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPHA	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 40.000	WALL NO.	1
ITEM NO.	88	D-COHE	>= 50.000	WALL NO.	2
ITEM NO.	89	D-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	90	D-KA	>= 0.36000	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.0980	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO.	1	NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= 15.000	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	>= 29.256	WALL NO.	1
ITEM NO.	9	U-FRICT	>= 35.000	WALL NO.	2
ITEM NO.	10	U-KA	>= 0.34800	WALL NO.	1
ITEM NO.	11	U-KP	>= 6.2270	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 40000.	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 40000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPHA	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 29.256	WALL NO.	1
ITEM NO.	89	D-FRICT	>= 35.000	WALL NO.	2
ITEM NO.	90	D-KA	>= 0.30000	WALL NO.	1
ITEM NO.	91	D-KP	>= 4.1020	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 2

ITEM NO.	1	NAME	= 11.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -4.0000	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 1.6000	WALL NO.	1
ITEM NO.	8	U-COHE	= 2.0000	WALL NO.	2
ITEM NO.	9	U-FRICT	= 20.458	WALL NO.	1
ITEM NO.	9	U-FRICT	= 25.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.87800	WALL NO.	1
ITEM NO.	11	U-KP	= 3.2700	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 30000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 90000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	= 1.6000	WALL NO.	1
ITEM NO.	88	D-COHE	= 2.0000	WALL NO.	2
ITEM NO.	89	D-FRICT	= 20.458	WALL NO.	1
ITEM NO.	89	D-FRICT	= 25.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.38500	WALL NO.	1
ITEM NO.	91	D-KP	= 1.8940	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO.	1	NAME	= 12.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -12.120	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 20.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 10.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 8.0000	WALL NO.	1
ITEM NO.	8	U-COHE	= 10.000	WALL NO.	2
ITEM NO.	9	U-FRICT	= 22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	= 27.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.85800	WALL NO.	1
ITEM NO.	11	U-KP	= 3.5420	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 0.10300E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	= 0.30900E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	58	U-TZKZ	= 10000.	(BOTH WALLS)	
ITEM NO.	60	U-TZDELTA	= 25.000	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	= 8.0000	WALL NO.	1
ITEM NO.	88	D-COHE	= 10.000	WALL NO.	2
ITEM NO.	89	D-FRICT	= 22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	= 27.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.36000	WALL NO.	1
ITEM NO.	91	D-KP	= 2.0630	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	138	D-TZKZ	= 10000.	(BOTH WALLS)	
ITEM NO.	140	D-TZDELTA	= 25.000	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 2

ITEM NO.	1	NAME	= 13.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -14.120	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 22.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 12.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 40.000	WALL NO.	1
ITEM NO.	8	U-COHE	= 50.000	WALL NO.	2
ITEM NO.	9	U-FRICT	= 22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	= 27.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.71800	WALL NO.	1
ITEM NO.	11	U-KP	= 3.3570	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	= 0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	

ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 40.000 WALL NO. 1
ITEM NO. 88<D-COHE >= 50.000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 22.177 WALL NO. 1
ITEM NO. 89<D-FRICT >= 27.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.36000 WALL NO. 1
ITEM NO. 91<D-KP >= 2.0980 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 10.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 15.000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 29.256 WALL NO. 1
ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.34800 WALL NO. 1
ITEM NO. 11<U-KP >= 6.2270 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 40000. (BOTH WALLS)
ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 29.256 WALL NO. 1
ITEM NO. 89<D-FRICT >= 35.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.30000 WALL NO. 1
ITEM NO. 91<D-KP >= 4.1020 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO. 1<NAME >= 11.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -4.0000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 1.6000 WALL NO. 1
ITEM NO. 8<U-COHE >= 2.0000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 20.458 WALL NO. 1
ITEM NO. 9<U-FRICT >= 25.000 WALL NO. 2
ITEM NO. 10<U-KA >= 0.87800 WALL NO. 1
ITEM NO. 11<U-KP >= 3.2700 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 30000. (BOTH WALLS)
ITEM NO. 18<EUR >= 90000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 1.6000 WALL NO. 1
ITEM NO. 88<D-COHE >= 2.0000 WALL NO. 2
ITEM NO. 89<D-FRICT >= 20.458 WALL NO. 1
ITEM NO. 89<D-FRICT >= 25.000 WALL NO. 2
ITEM NO. 90<D-KA >= 0.38500 WALL NO. 1
ITEM NO. 91<D-KP >= 1.8940 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -12.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
ITEM NO. 9<U-FRICT >= 22.177 WALL NO. 1
ITEM NO. 9<U-FRICT >= 27.000 WALL NO. 2

ITEM NO.	10	U-KA	>= 0.85800	WALL NO.	1
ITEM NO.	11	U-KP	>= 3.5420	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.10300E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.30900E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	58	U-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	60	U-TZDEL	>= 25.000	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	88	D-COHE	>= 10.000	WALL NO.	2
ITEM NO.	89	D-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	90	D-KA	>= 0.36000	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.0630	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	138	D-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	140	D-TZDEL	>= 25.000	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 3

ITEM NO.	1	NAME	>= 13.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= -14.120	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 22.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 12.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	>= 40.000	WALL NO.	1
ITEM NO.	8	U-COHE	>= 50.000	WALL NO.	2
ITEM NO.	9	U-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	10	U-KA	>= 0.71800	WALL NO.	1
ITEM NO.	11	U-KP	>= 3.3570	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 40.000	WALL NO.	1
ITEM NO.	88	D-COHE	>= 50.000	WALL NO.	2
ITEM NO.	89	D-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	90	D-KA	>= 0.36000	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.0980	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	>= 0.50000	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 12 VALUES

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|           PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021* |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:35:00                            |
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PHASE DESCRIPTORS

STEP NO.	1 no. of subincrements	1	LEFT WALL	RIGHT WALL
Y			0.000	-0.9990E+30
Z-PC			0.000	0.000
Z-EXCAVATION			-4.000	0.000
Z-WATER_TABLE			-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL			0.000	0.000
ZQ			0.000	0.000
DZW_OF_THE_WATER_TABLE			0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE			0.000	0.000
ZQS			0.000	-0.9990E+30
ZCUT			0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES			-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)			0.000	0.000
PORE_UPDATE_FLAG			0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)			0.000	0.000
lateral thrusts reduction elevatio			0.000	0.000
Downhill reduction factor for effe			0.000	0.000
Downhill reduction factor for pore			0.000	0.000
Uphill reduction factor for effect			0.000	0.000
Uphill reduction factor for pore p			0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]			0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]			0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]			0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]			0.000	0.000
UPHILL DELTA/PHI RATIO			0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]			0.000	0.000
DOWNHILL DELTA/PHI RATIO			0.000	0.000
DYN.WATER BEHAVIOUR			0.000	0.000
Excess pore pressure RATIO Ru			0.000	0.000
SEISMIC PRESSURE LOWER VALUE			0.000	0.000
SEISMIC PRESSURE UPPER VALUE			0.000	0.000
SEISMIC PRESSURE LOWER LEVEL			0.000	0.000
SEISMIC PRESSURE UPPER LEVEL			0.000	0.000

=====end of step 1

STEP NO.	2 no. of subincrements	1	LEFT WALL	RIGHT WALL
Y			0.000	-0.9990E+30
Z-PC			0.000	0.000
Z-EXCAVATION			-4.000	0.000
Z-WATER_TABLE			-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL			0.000	0.000
ZQ			0.000	0.000
DZW_OF_THE_WATER_TABLE			0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE			0.000	0.000
ZQS			0.000	-0.9990E+30
ZCUT			0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES			-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)			0.000	0.000
PORE_UPDATE_FLAG			0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)			0.000	0.000
lateral thrusts reduction elevatio			0.000	0.000
Downhill reduction factor for effe			0.000	0.000
Downhill reduction factor for pore			0.000	0.000
Uphill reduction factor for effect			0.000	0.000
Uphill reduction factor for pore p			0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]			0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]			0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]			0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]			0.000	0.000
UPHILL DELTA/PHI RATIO			0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]			0.000	0.000
DOWNHILL DELTA/PHI RATIO			0.000	0.000
DYN.WATER BEHAVIOUR			0.000	0.000
Excess pore pressure RATIO Ru			0.000	0.000
SEISMIC PRESSURE LOWER VALUE			0.000	0.000
SEISMIC PRESSURE UPPER VALUE			0.000	0.000
SEISMIC PRESSURE LOWER LEVEL			0.000	0.000
SEISMIC PRESSURE UPPER LEVEL			0.000	0.000

=====end of step 2

STEP NO.	3 no. of subincrements	1	LEFT WALL	RIGHT WALL
Y			0.000	-0.9990E+30

Z-PC	0.000	0.000
Z-EXCAVATION	-4.000	0.000
Z-WATER_TABLE	-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

=====
=====end of step 3

LEFT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:35:00                            |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 1.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 11.400000000000000
 FOUNDATION WIDTH (B) 9.900000000000000
 ZETA-F..... 4.700000000000000
 Q-F 52.000000000000000
 BETA 45.000000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 5874

NO. OF D.P.W FOR THIS AREA 16376
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1782E+06 RIMNOR= 0.000
 RENORM= 5663. REMNOR= 0.000 RATIO =0.1783 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.13 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1782E+06 RDR = 0.000
 RATIO=0.1783 RATIO= 0.000
 MAX UN= 8.531 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1782E+06 RIMNOR= 0.000
 RENORM= 7524. REMNOR=0.8760E-17 RATIO =0.2055 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.13 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1782E+06 RDR = 0.000
 RATIO=0.2055 RATIO= 0.000
 MAX UN= 17.49 IEQ= 143 NODE 72 DOF 1 Y-DISPL.F
 MIN UN=-.5044 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1782E+06 RIMNOR= 0.000
 RENORM= 2783. REMNOR=0.1645E-15 RATIO =0.1250 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.13 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1782E+06 RDR = 0.000
 RATIO=0.1250 RATIO= 0.000
 MAX UN= 20.09 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
 MIN UN=-.9139 IEQ= 211 NODE 106 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1782E+06 RIMNOR= 0.000
 RENORM= 521.9 REMNOR=0.1815E-15 RATIO =0.5413E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.13 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1782E+06 RDR = 0.000
 RATIO=0.5413E-01 RATIO= 0.000
 MAX UN= 9.996 IEQ= 123 NODE 62 DOF 1 Y-DISPL.F
 MIN UN=-4.997 IEQ= 211 NODE 106 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1782E+06 RIMNOR= 0.000
 RENORM= 45.86 REMNOR=0.8281E-16 RATIO =0.1604E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.13 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000

RDT =0.1782E+06 RDR = 0.000
RATIOT=0.1604E-01 RATIO= 0.000
MAX UN= 4.567 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
MIN UN=-3.354 IEQ= 205 NODE 103 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1782E+06 RIMNOR= 0.000
RENORM=0.2253E-13 REMNOR=0.7500E-16 RATIO =0.3556E-09 TOLER =0.1000E-03 CONVERGED !
RFMAX = 58.13 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1782E+06 RDR = 0.000
RATIOT=0.3556E-09 RATIO= 0.000
MAX UN=0.5185E-07 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
MIN UN=-.5867E-07 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0


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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                ParatiePlus                                                                                                                                            |
|                Exe Time :28 January 2022  15:35:00                                                                                                                                            |
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New Project
SOLUTION REACHED USING      6 ITERATIONS ON      40

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PRINT OUT FOR TIME STEP 1 ( AT TIME 1.000 ) SUBINCREMENT 00001/00001

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PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

```

	Y-DISPL.F	X-ROT. F
	02	04
1	4.8309486E-02	-3.4199006E-03
2	4.7625506E-02	-3.4199004E-03
3	4.6941526E-02	-3.4198978E-03
4	4.6257548E-02	-3.4198865E-03
5	4.5573573E-02	-3.4198561E-03
6	4.4889607E-02	-3.4197926E-03
7	4.4205659E-02	-3.4196781E-03
8	4.3521741E-02	-3.4194908E-03
9	4.2837870E-02	-3.4192049E-03
10	4.2154068E-02	-3.4187908E-03
11	4.1470364E-02	-3.4182150E-03
12	4.0786795E-02	-3.4174402E-03
13	4.0103404E-02	-3.4164251E-03
14	3.9420244E-02	-3.4151244E-03
15	3.8737377E-02	-3.4134893E-03
16	3.8054874E-02	-3.4114666E-03
17	3.7372717E-02	-3.4100601E-03
18	3.6690869E-02	-3.4083656E-03
19	3.6009392E-02	-3.4063463E-03
20	3.5328355E-02	-3.4039631E-03
21	3.4647834E-02	-3.4011746E-03
22	3.3967917E-02	-3.3979094E-03
23	3.3288709E-02	-3.3940701E-03
24	3.2610337E-02	-3.3895655E-03
25	3.1932936E-02	-3.3843106E-03
26	3.1256668E-02	-3.3782264E-03
27	3.0581705E-02	-3.3712406E-03
28	2.9908236E-02	-3.3632865E-03
29	2.9236463E-02	-3.3543040E-03
30	2.8566590E-02	-3.3442390E-03
31	2.7898842E-02	-3.3330437E-03
32	2.7233451E-02	-3.3206763E-03
33	2.6570653E-02	-3.3071001E-03
34	2.5910693E-02	-3.2922818E-03
35	2.5253828E-02	-3.2761910E-03
36	2.4600307E-02	-3.2587999E-03
37	2.3950396E-02	-3.2400838E-03
38	2.3304363E-02	-3.2200209E-03
39	2.2662479E-02	-3.1985921E-03
40	2.2025022E-02	-3.1757814E-03
41	2.1392263E-02	-3.1515751E-03
42	2.0764485E-02	-3.1259630E-03
43	2.0141972E-02	-3.0989374E-03
44	1.9525005E-02	-3.0704937E-03
45	1.8913872E-02	-3.0406301E-03
46	1.8308851E-02	-3.0093473E-03
47	1.7710227E-02	-2.9766492E-03
48	1.7118285E-02	-2.9425421E-03
49	1.6533304E-02	-2.9070345E-03
50	1.5955566E-02	-2.8701381E-03
51	1.5385343E-02	-2.8318661E-03
52	1.4822922E-02	-2.7922358E-03
53	1.4268550E-02	-2.7512646E-03
54	1.3722504E-02	-2.7089747E-03
55	1.3185046E-02	-2.6653871E-03
56	1.2656435E-02	-2.6205173E-03
57	1.2136924E-02	-2.5743721E-03
58	1.1626771E-02	-2.5269503E-03
59	1.1126230E-02	-2.4782422E-03
60	1.0635561E-02	-2.4282302E-03
61	1.0155027E-02	-2.3768887E-03
62	9.6848962E-03	-2.3241844E-03
63	9.2254406E-03	-2.2701628E-03
64	8.7769102E-03	-2.2149539E-03
65	8.3395293E-03	-2.1586917E-03
66	7.9134946E-03	-2.1015139E-03
67	7.4989753E-03	-2.0435620E-03
68	7.0961117E-03	-1.9849814E-03
69	6.7050148E-03	-1.9259201E-03
70	6.3257664E-03	-1.8665176E-03
71	5.9584224E-03	-1.8068957E-03
72	5.6030158E-03	-1.7471583E-03
73	5.2595540E-03	-1.6874963E-03
74	4.9279939E-03	-1.6281855E-03

75 4.6082393E-03 -1.5694820E-03
76 4.3001449E-03 -1.5116220E-03
77 4.0035198E-03 -1.4548235E-03
78 3.7181314E-03 -1.3992860E-03
79 3.4437091E-03 -1.3451919E-03
80 3.1799474E-03 -1.2927064E-03
81 2.9265094E-03 -1.2419789E-03
82 2.6830298E-03 -1.1931429E-03
83 2.4491182E-03 -1.1463170E-03
84 2.2243620E-03 -1.1016052E-03
85 2.0083292E-03 -1.0590977E-03
86 1.8005709E-03 -1.0188711E-03
87 1.6006244E-03 -9.8098962E-04
88 1.4080152E-03 -9.4550495E-04
89 1.2222599E-03 -9.1245708E-04
90 1.0428592E-03 -8.8187308E-04
91 8.6933605E-04 -8.5377346E-04
92 7.0118387E-04 -8.2816338E-04
93 5.3790498E-04 -8.0503914E-04
94 3.7900371E-04 -7.8438249E-04
95 2.2399012E-04 -7.6615377E-04
96 7.2384370E-05 -7.5029256E-04
97 -7.6279540E-05 -7.3672092E-04
98 -2.2245030E-04 -7.2534385E-04
99 -3.6655551E-04 -7.1604319E-04
100 -5.0899612E-04 -7.0867068E-04
101 -6.5014041E-04 -7.0304767E-04
102 -7.9031790E-04 -6.9896535E-04
103 -9.2982075E-04 -6.9619151E-04
104 -1.0688724E-03 -6.9448175E-04
105 -1.2076675E-03 -6.9358274E-04
106 -1.3463421E-03 -6.9323288E-04
107 -1.4849723E-03 -6.9316200E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

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0_L          :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 1.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	1.8374E-02	-4.8309E-02	0.5280	0.1837	0.5280	5.228	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.1837	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.3054	-4.7626E-02	4.388	1.527	4.388	7.265	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	1.527	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.5743	-4.6942E-02	8.251	2.871	8.251	9.295	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	2.871	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.8434	-4.6258E-02	12.12	4.217	12.12	11.32	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	4.217	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	1.113	-4.5574E-02	15.99	5.563	15.99	13.33	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	5.563	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.382	-4.4890E-02	19.86	6.911	19.86	15.33	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	6.911	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.652	-4.4206E-02	23.73	8.259	23.73	17.33	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	8.259	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.922	-4.3522E-02	27.61	9.609	27.61	19.32	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	9.609	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	2.192	-4.2838E-02	31.49	10.96	31.49	21.30	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	10.96	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	2.462	-4.2154E-02	35.37	12.31	35.37	23.28	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	12.31	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.732	-4.1470E-02	39.26	13.66	39.26	25.24	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	13.66	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	3.003	-4.0787E-02	43.14	15.01	43.14	27.20	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	15.01	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	3.273	-4.0103E-02	47.03	16.37	47.03	29.16	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	16.37	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	3.544	-3.9420E-02	50.92	17.72	50.92	31.10	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	17.72	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	3.815	-3.8737E-02	54.81	19.07	54.81	33.04	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	19.07	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	4.086	-3.8055E-02	58.71	20.43	58.71	34.98	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	20.43	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	4.357	-3.7373E-02	62.60	21.78	62.60	36.90	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	21.78	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	4.628	-3.6691E-02	66.49	23.14	66.49	38.83	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	23.14	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	4.899	-3.6009E-02	70.39	24.50	70.39	40.74	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	24.50	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	5.170	-3.5328E-02	74.29	25.85	74.29	42.65	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	25.85	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	13.13	-3.4648E-02	78.18	65.65	78.18	65.65	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	65.65	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	13.81	-3.3968E-02	82.08	69.07	82.08	69.07	ACTIVE	0.000	-4.200	0.000	

1.000	1.000	69.07	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	14.50	-3.3289E-02	85.98	72.49	85.98	72.49	ACTIVE	0.000	-4.400	0.000
1.000	1.000	72.49	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	15.18	-3.2610E-02	89.87	75.91	89.87	75.91	ACTIVE	0.000	-4.600	0.000
1.000	1.000	75.91	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	15.87	-3.1933E-02	93.77	79.33	93.77	79.33	ACTIVE	0.000	-4.800	0.000
1.000	1.000	79.33	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	16.55	-3.1257E-02	97.67	82.76	97.67	82.76	ACTIVE	0.000	-5.000	0.000
1.000	1.000	82.76	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	17.24	-3.0582E-02	101.6	86.18	101.6	86.18	ACTIVE	0.000	-5.200	0.000
1.000	1.000	86.18	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	17.92	-2.9908E-02	105.5	89.60	105.5	89.60	ACTIVE	0.000	-5.400	0.000
1.000	1.000	89.60	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	18.60	-2.9236E-02	109.4	93.02	109.4	93.02	ACTIVE	0.000	-5.600	0.000
1.000	1.000	93.02	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	19.29	-2.8567E-02	113.3	96.44	113.3	96.44	ACTIVE	0.000	-5.800	0.000
1.000	1.000	96.44	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	20.00	-2.7899E-02	116.0	98.87	116.0	98.87	ACTIVE	0.000	-6.000	1.127
1.000	1.000	100.00	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	20.73	-2.7233E-02	117.9	100.5	117.9	100.5	ACTIVE	0.000	-6.200	3.114
1.000	1.000	103.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.46	-2.6571E-02	119.8	102.2	119.8	102.2	ACTIVE	0.000	-6.400	5.101
1.000	1.000	107.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	22.20	-2.5911E-02	121.7	103.9	121.7	103.9	ACTIVE	0.000	-6.600	7.089
1.000	1.000	111.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	22.93	-2.5254E-02	123.6	105.6	123.6	105.6	ACTIVE	0.000	-6.800	9.076
1.000	1.000	114.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	23.66	-2.4600E-02	125.5	107.2	125.5	107.2	ACTIVE	0.000	-7.000	11.06
1.000	1.000	118.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	24.39	-2.3950E-02	127.5	108.9	127.5	108.9	ACTIVE	0.000	-7.200	13.05
1.000	1.000	122.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	25.12	-2.3304E-02	129.4	110.6	129.4	110.6	ACTIVE	0.000	-7.400	15.04
1.000	1.000	125.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	25.85	-2.2662E-02	131.3	112.2	131.3	112.2	ACTIVE	0.000	-7.600	17.03
1.000	1.000	129.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	26.58	-2.2025E-02	133.1	113.9	133.1	113.9	ACTIVE	0.000	-7.800	19.01
1.000	1.000	132.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	27.31	-2.1392E-02	135.0	115.6	135.0	115.6	ACTIVE	0.000	-8.000	21.00
1.000	1.000	136.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	28.04	-2.0764E-02	136.9	117.2	136.9	117.2	ACTIVE	0.000	-8.200	22.99
1.000	1.000	140.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	28.77	-2.0142E-02	138.8	118.9	138.8	118.9	ACTIVE	0.000	-8.400	24.97
1.000	1.000	143.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	29.50	-1.9525E-02	140.7	120.6	140.7	120.6	ACTIVE	0.000	-8.600	26.96
1.000	1.000	147.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	30.23	-1.8914E-02	142.6	122.2	142.6	122.2	ACTIVE	0.000	-8.800	28.95
1.000	1.000	151.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	31.01	-1.8309E-02	144.8	124.1	144.8	124.1	ACTIVE	0.000	-9.000	30.94
1.000	1.000	155.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	31.78	-1.7710E-02	146.9	126.0	146.9	126.0	ACTIVE	0.000	-9.200	32.92
1.000	1.000	158.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	32.55	-1.7118E-02	149.0	127.9	149.0	127.9	ACTIVE	0.000	-9.400	34.91
1.000	1.000	162.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	33.33	-1.6533E-02	151.2	129.7	151.2	129.7	ACTIVE	0.000	-9.600	36.90
1.000	1.000	166.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	34.10	-1.5956E-02	153.3	131.6	153.3	131.6	ACTIVE	0.000	-9.800	38.89
1.000	1.000	170.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	34.87	-1.5385E-02	155.4	133.5	155.4	133.5	ACTIVE	0.000	-10.000	40.87
1.000	1.000	174.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	35.64	-1.4823E-02	157.5	135.3	157.5	135.3	ACTIVE	0.000	-10.200	42.86
1.000	1.000	178.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	36.40	-1.4269E-02	159.6	137.2	159.6	137.2	ACTIVE	0.000	-10.40	44.85
1.000	1.000	182.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	37.17	-1.3723E-02	161.7	139.0	161.7	139.0	ACTIVE	0.000	-10.60	46.83
1.000	1.000	185.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	37.93	-1.3185E-02	163.8	140.9	163.8	140.9	ACTIVE	0.000	-10.80	48.82
1.000	1.000	189.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	38.70	-1.2656E-02	165.9	142.7	165.9	142.7	ACTIVE	0.000	-11.00	50.81
1.000	1.000	193.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	39.46	-1.2137E-02	168.0	144.5	168.0	144.5	ACTIVE	0.000	-11.20	52.80
1.000	1.000	197.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	40.23	-1.1627E-02	170.1	146.3	170.1	146.3	ACTIVE	0.000	-11.40	54.78
1.000	1.000	201.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	40.99	-1.1126E-02	172.2	148.2	172.2	148.2	ACTIVE	0.000	-11.60	56.77
1.000	1.000	204.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	41.75	-1.0636E-02	174.2	150.0	174.2	150.0	ACTIVE	0.000	-11.80	58.76
1.000	1.000	208.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.51	-1.0155E-02	176.3	151.8	176.3	151.8	ACTIVE	0.000	-12.00	60.75
1.000	1.000	212.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	40.21	-9.6849E-03	178.5	138.3	178.5	138.3	ACTIVE	0.000	-12.20	62.73
1.000	1.000	201.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	41.01	-9.2254E-03	180.8	140.3	180.8	140.3	ACTIVE	0.000	-12.40	64.72
1.000	1.000	205.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	41.81	-8.7769E-03	183.2	142.3	183.2	142.3	ACTIVE	0.000	-12.60	66.71
1.000	1.000	209.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	42.61	-8.3395E-03	185.5	144.4	185.5	144.4	ACTIVE	0.000	-12.80	68.70
1.000	1.000	213.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	43.41	-7.9135E-03	187.9	146.4	187.9	146.4	ACTIVE	0.000	-13.00	70.68
1.000	1.000	217.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	44.21	-7.4990E-03	190.2	148.4	190.2	148.4	ACTIVE	0.000	-13.20	72.67
1.000	1.000	221.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	45.01	-7.0961E-03	192.5	150.4	192.5	150.4	ACTIVE	0.000	-13.40	74.66
1.000	1.000	225.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	45.80	-6.7050E-03	194.9	152.4	194.9	152.4	ACTIVE	0.000	-13.60	76.64
1.000	1.000	229.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	46.60	-6.3258E-03	197.2	154.4	197.2	154.4	ACTIVE	0.000	-13.80	78.63
1.000	1.000	233.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	47.40	-5.9584E-03	199.5	156.4	199.5	156.4	ACTIVE	0.000	-14.00	80.62
1.000	1.000	237.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	31.97	-5.6030E-03	202.0	77.24	202.0	99.34	ACTIVE	0.000	-14.20	82.61
1.000	1.000	159.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	32.76	-5.2596E-03	204.7	79.19	204.7	100.5	ACTIVE	0.000	-14.40	84.59
1.000	1.000	163.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.54	-4.9280E-03	207.4	81.14	207.4	101.7	ACTIVE	0.000	-14.60	86.58
1.000	1.000	167.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.33	-4.6082E-03	210.1	83.08	210.1	102.9	ACTIVE	0.000	-14.80	88.57
1.000	1.000	171.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	35.12	-4.3001E-03	212.8	85.02	212.8	104.1	ACTIVE	0.000	-15.00	90.56
1.000	1.000	175.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	35.90	-4.0035E-03	215.5	86.96	215.5	105.4	ACTIVE	0.000	-15.20	92.54
1.000	1.000	179.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	36.69	-3.7181E-03	218.2	88.90	218.2	106.6	ACTIVE	0.000	-15.40	94.53
1.000	1.000	183.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	37.47	-3.4437E-03	220.9	90.84	220.9	107.8	ACTIVE	0.000	-15.60	96.52
1.000	1.000	187.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	38.25	-3.1799E-03	223.6	92.77	223.6	109.0	ACTIVE	0.000	-15.80	98.50
1.000	1.000	191.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	39.04	-2.9265E-03	226.3	94.70	226.3	110.2	ACTIVE	0.000	-16.00	100.5
1.000	1.000	195.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	39.82	-2.6830E-03	229.0	96.63	229.0	111.4	ACTIVE	0.000	-16.20	102.5
1.000	1.000	199.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.60	-2.4491E-03	231.7	98.56	231.7	112.6	ACTIVE	0.000	-16.40	104.5
1.000	1.000	203.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000							
84 D	41.39	-2.2244E-03	234.4	100.5	234.4	113.8	ACTIVE	0.000	-16.60	106.5	
1.000	1.000	206.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
85 D	42.14	-2.0083E-03	236.8	102.2	236.8	115.0	ACTIVE	0.000	-16.80	108.4	
1.000	1.000	210.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
86 D	42.88	-1.8006E-03	239.2	104.0	239.2	116.2	ACTIVE	0.000	-17.00	110.4	
1.000	1.000	214.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
87 D	43.63	-1.6006E-03	241.7	105.7	241.7	117.4	ACTIVE	0.000	-17.20	112.4	
1.000	1.000	218.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
88 D	44.38	-1.4080E-03	244.1	107.5	244.1	118.6	ACTIVE	0.000	-17.40	114.4	
1.000	1.000	221.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
89 D	45.13	-1.2223E-03	246.6	109.2	246.6	119.8	ACTIVE	0.000	-17.60	116.4	
1.000	1.000	225.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
90 D	45.88	-1.0429E-03	249.0	111.0	249.0	121.0	ACTIVE	0.000	-17.80	118.4	
1.000	1.000	229.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
91 D	46.62	-8.6934E-04	251.5	112.8	251.5	122.3	ACTIVE	0.000	-18.00	120.4	
1.000	1.000	233.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
92 D	47.37	-7.0118E-04	253.9	114.5	253.9	123.5	ACTIVE	0.000	-18.20	122.4	
1.000	1.000	236.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
93 D	48.80	-5.3790E-04	256.3	119.7	256.3	124.7	UL-RL	1.1296E+05	-18.40	124.3	
1.000	1.000	244.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
94 D	50.54	-3.7900E-04	258.8	126.4	258.8	126.4	V-C	3.7653E+04	-18.60	126.3	
1.000	1.000	252.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
95 D	51.60	-2.2399E-04	261.2	129.7	261.2	129.7	V-C	3.7653E+04	-18.80	128.3	
1.000	1.000	258.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
96 D	52.65	-7.2384E-05	263.7	132.9	263.7	132.9	V-C	3.7653E+04	-19.00	130.3	
1.000	1.000	263.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
97 D	53.69	7.6280E-05	266.1	136.1	266.1	136.1	V-C	3.7653E+04	-19.20	132.3	
1.000	1.000	268.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
98 D	55.28	2.2245E-04	268.6	142.1	268.6	142.1	V-C	3.7653E+04	-19.40	134.3	
1.000	1.000	276.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
99 D	56.92	3.6656E-04	271.0	148.3	271.0	148.3	V-C	3.7653E+04	-19.60	136.3	
1.000	1.000	284.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
100 D	58.55	5.0900E-04	273.5	154.5	273.5	154.5	V-C	3.7653E+04	-19.80	138.3	
1.000	1.000	292.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
101 D	60.18	6.5014E-04	275.9	160.7	275.9	160.7	V-C	3.7653E+04	-20.00	140.2	
1.000	1.000	300.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
102 D	61.80	7.9032E-04	278.4	166.8	278.4	166.8	V-C	3.7653E+04	-20.20	142.2	
1.000	1.000	309.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
103 D	63.42	9.2982E-04	280.8	172.9	280.8	172.9	V-C	3.7653E+04	-20.40	144.2	
1.000	1.000	317.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
104 D	65.03	1.0689E-03	283.3	178.9	283.3	178.9	V-C	3.7653E+04	-20.60	146.2	
1.000	1.000	325.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
105 D	66.64	1.2077E-03	285.7	185.0	285.7	185.0	V-C	3.7653E+04	-20.80	148.2	
1.000	1.000	333.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
106 D	68.27	1.3463E-03	288.2	191.2	288.2	191.2	V-C	3.7653E+04	-21.00	150.2	
1.000	1.000	341.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
107 D	34.98	1.4850E-03	290.6	197.6	290.6	197.6	V-C	3.7653E+04	-21.20	152.2	
1.000	1.000	349.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 1.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FAC-
TOR	UFACTOR	Peq	Su_a	Su_p	Cohe_a	Cohe_p	LAYER		ZFO	QS	
QSL	ZD	ZPL	Kz								
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
21 D	0.8808	3.4648E-02	0.000	4.404	0.000	6.560	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	4.404	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.320	3.3968E-02	3.800	11.60	3.800	11.60	PASSIVE	0.000	-4.200	0.000	
1.000	1.000	11.60	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	3.760	3.3289E-02	7.600	18.80	7.600	18.80	PASSIVE	0.000	-4.400	0.000	
1.000	1.000	18.80	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	5.199	3.2610E-02	11.40	26.00	11.40	26.00	PASSIVE	0.000	-4.600	0.000	
1.000	1.000	26.00	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	6.639	3.1933E-02	15.20	33.19	15.20	33.19	PASSIVE	0.000	-4.800	0.000	
1.000	1.000	33.19	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	8.078	3.1257E-02	19.00	40.39	19.00	40.39	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	40.39	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	9.517	3.0582E-02	22.80	47.59	22.80	47.59	PASSIVE	0.000	-5.200	0.000	
1.000	1.000	47.59	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	10.96	2.9908E-02	26.60	54.78	26.60	54.78	PASSIVE	0.000	-5.400	0.000	
1.000	1.000	54.78	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	12.40	2.9236E-02	30.40	61.98	30.40	61.98	PASSIVE	0.000	-5.600	0.000
1.000	1.000	61.98	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	13.84	2.8567E-02	34.20	69.18	34.20	69.18	PASSIVE	0.000	-5.800	0.000
1.000	1.000	69.18	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	15.28	2.7899E-02	38.00	76.38	38.00	76.38	PASSIVE	0.000	-6.000	0.000
1.000	1.000	76.38	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	16.50	2.7233E-02	40.59	81.28	40.59	81.28	PASSIVE	0.000	-6.200	1.211
1.000	1.000	82.49	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	17.58	2.6571E-02	42.38	84.67	42.38	84.67	PASSIVE	0.000	-6.400	3.223
1.000	1.000	87.89	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	18.66	2.5911E-02	44.16	88.05	44.16	88.05	PASSIVE	0.000	-6.600	5.236
1.000	1.000	93.29	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	19.74	2.5254E-02	45.95	91.44	45.95	91.44	PASSIVE	0.000	-6.800	7.249
1.000	1.000	98.68	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	20.82	2.4600E-02	47.74	94.82	47.74	94.82	PASSIVE	0.000	-7.000	9.261
1.000	1.000	104.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	21.90	2.3950E-02	49.53	98.21	49.53	98.21	PASSIVE	0.000	-7.200	11.27
1.000	1.000	109.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	22.98	2.3304E-02	51.31	101.6	51.31	101.6	PASSIVE	0.000	-7.400	13.29
1.000	1.000	114.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	24.06	2.2662E-02	53.10	105.0	53.10	105.0	PASSIVE	0.000	-7.600	15.30
1.000	1.000	120.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	25.13	2.2025E-02	54.89	108.4	54.89	108.4	PASSIVE	0.000	-7.800	17.31
1.000	1.000	125.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	26.21	2.1392E-02	56.68	111.7	56.68	111.7	PASSIVE	0.000	-8.000	19.32
1.000	1.000	131.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	27.29	2.0764E-02	58.46	115.1	58.46	115.1	PASSIVE	0.000	-8.200	21.34
1.000	1.000	136.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	28.37	2.0142E-02	60.25	118.5	60.25	118.5	PASSIVE	0.000	-8.400	23.35
1.000	1.000	141.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	29.45	1.9525E-02	62.04	121.9	62.04	121.9	PASSIVE	0.000	-8.600	25.36
1.000	1.000	147.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	30.53	1.8914E-02	63.82	125.3	63.82	125.3	PASSIVE	0.000	-8.800	27.38
1.000	1.000	152.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	31.61	1.8309E-02	65.61	128.7	65.61	128.7	PASSIVE	0.000	-9.000	29.39
1.000	1.000	158.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	32.69	1.7710E-02	67.40	132.1	67.40	132.1	PASSIVE	0.000	-9.200	31.40
1.000	1.000	163.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	33.77	1.7118E-02	69.19	135.4	69.19	135.4	PASSIVE	0.000	-9.400	33.41
1.000	1.000	168.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	34.85	1.6533E-02	70.97	138.8	70.97	138.8	PASSIVE	0.000	-9.600	35.43
1.000	1.000	174.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	35.93	1.5956E-02	72.76	142.2	72.76	142.2	PASSIVE	0.000	-9.800	37.44
1.000	1.000	179.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	37.01	1.5385E-02	74.55	145.6	74.55	145.6	PASSIVE	0.000	-10.000	39.45
1.000	1.000	185.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	38.09	1.4823E-02	76.34	149.0	76.34	149.0	PASSIVE	0.000	-10.200	41.46
1.000	1.000	190.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	39.17	1.4269E-02	78.12	152.4	78.12	152.4	PASSIVE	0.000	-10.400	43.48
1.000	1.000	195.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	39.56	1.3723E-02	79.91	152.3	79.91	152.3	V-C 7811.		-10.600	45.49
1.000	1.000	197.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	39.29	1.3185E-02	81.70	148.9	81.70	148.9	V-C 7811.		-10.800	47.50
1.000	1.000	196.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	39.03	1.2656E-02	83.48	145.7	83.48	145.7	V-C 7811.		-11.000	49.52
1.000	1.000	195.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	38.79	1.2137E-02	85.27	142.4	85.27	142.4	V-C 7811.		-11.200	51.53
1.000	1.000	194.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	38.56	1.1627E-02	87.06	139.3	87.06	139.3	V-C 7811.		-11.400	53.54
1.000	1.000	192.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	38.35	1.1126E-02	88.85	136.2	88.85	136.2	V-C 7811.		-11.600	55.55
1.000	1.000	191.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	38.15	1.0636E-02	90.63	133.2	90.63	133.2	V-C 7811.	-11.80	57.57	
1.000	1.000	190.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	37.97	1.0155E-02	92.42	130.3	92.42	130.3	V-C 7811.	-12.00	59.58	
1.000	1.000	189.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	55.83	9.6849E-03	94.33	217.6	94.33	217.6	PASSIVE 0.000	-12.20	61.59	
1.000	1.000	279.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	57.10	9.2254E-03	96.42	221.9	96.42	221.9	PASSIVE 0.000	-12.40	63.60	
1.000	1.000	285.5	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	58.36	8.7769E-03	98.50	226.2	98.50	226.2	PASSIVE 0.000	-12.60	65.62	
1.000	1.000	291.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	59.63	8.3395E-03	100.6	230.5	100.6	230.5	PASSIVE 0.000	-12.80	67.63	
1.000	1.000	298.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	60.89	7.9135E-03	102.7	234.8	102.7	234.8	PASSIVE 0.000	-13.00	69.64	
1.000	1.000	304.4	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	62.15	7.4990E-03	104.8	239.1	104.8	239.1	PASSIVE 0.000	-13.20	71.65	
1.000	1.000	310.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	63.14	7.0961E-03	106.9	242.0	106.9	242.0	V-C 2.5966E+04	-13.40	73.67	
1.000	1.000	315.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	61.71	6.7050E-03	108.9	232.9	108.9	232.9	V-C 2.5966E+04	-13.60	75.68	
1.000	1.000	308.5	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	60.34	6.3258E-03	111.0	224.0	111.0	224.0	V-C 2.5966E+04	-13.80	77.69	
1.000	1.000	301.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	59.03	5.9584E-03	113.1	215.4	113.1	215.4	V-C 2.5966E+04	-14.00	79.71	
1.000	1.000	295.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	66.84	5.6030E-03	115.4	252.5	115.4	252.5	V-C 3.4033E+04	-14.20	81.72	
1.000	1.000	334.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	65.14	5.2596E-03	117.8	242.0	117.8	242.0	V-C 3.4033E+04	-14.40	83.73	
1.000	1.000	325.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	63.52	4.9280E-03	120.3	231.9	120.3	231.9	V-C 3.4033E+04	-14.60	85.74	
1.000	1.000	317.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	61.99	4.6082E-03	122.8	222.2	122.8	222.2	V-C 3.4033E+04	-14.80	87.76	
1.000	1.000	309.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	60.53	4.3001E-03	125.3	212.9	125.3	212.9	V-C 3.4033E+04	-15.00	89.77	
1.000	1.000	302.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	59.15	4.0035E-03	127.8	204.0	127.8	204.0	V-C 3.4033E+04	-15.20	91.78	
1.000	1.000	295.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	57.85	3.7181E-03	130.3	195.5	130.3	195.5	V-C 3.4033E+04	-15.40	93.79	
1.000	1.000	289.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	56.62	3.4437E-03	132.8	187.3	132.8	187.3	V-C 3.4033E+04	-15.60	95.81	
1.000	1.000	283.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	55.47	3.1799E-03	135.3	179.5	135.3	179.5	V-C 3.4033E+04	-15.80	97.82	
1.000	1.000	277.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	54.39	2.9265E-03	137.7	172.1	137.7	172.1	V-C 3.4033E+04	-16.00	99.83	
1.000	1.000	271.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	53.37	2.6830E-03	140.2	165.0	140.2	165.0	V-C 3.4033E+04	-16.20	101.8	
1.000	1.000	266.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	52.42	2.4491E-03	142.7	158.2	142.7	158.2	V-C 3.4033E+04	-16.40	103.9	
1.000	1.000	262.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	51.53	2.2244E-03	145.2	151.8	145.2	151.8	V-C 3.4033E+04	-16.60	105.9	
1.000	1.000	257.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	50.70	2.0083E-03	147.7	145.6	147.7	145.6	V-C 3.4033E+04	-16.80	107.9	
1.000	1.000	253.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	49.93	1.8006E-03	150.2	139.8	150.2	139.8	V-C 3.4033E+04	-17.00	109.9	
1.000	1.000	249.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	49.21	1.6006E-03	152.7	134.1	152.7	134.1	V-C 3.4033E+04	-17.20	111.9	
1.000	1.000	246.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	48.54	1.4080E-03	155.2	128.8	155.2	128.8	V-C 3.4033E+04	-17.40	113.9	
1.000	1.000	242.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	47.92	1.2223E-03	157.6	123.7	157.6	123.7	V-C 3.4033E+04	-17.60	115.9	
1.000	1.000	239.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	47.34	1.0429E-03	160.1	118.8	160.1	118.8	V-C 3.4033E+04	-17.80	117.9	

1.000	1.000	236.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	46.80	8.6934E-04	162.6	114.0	162.6	114.0	V-C 3.4033E+04	-18.00	120.0
1.000	1.000	234.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	46.30	7.0118E-04	165.1	109.5	165.1	109.5	V-C 3.4033E+04	-18.20	122.0
1.000	1.000	231.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	45.42	5.3790E-04	167.6	103.1	167.6	106.2	UL-RL 1.0210E+05	-18.40	124.0
1.000	1.000	227.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	44.26	3.7900E-04	170.1	95.31	170.1	103.8	UL-RL 1.0210E+05	-18.60	126.0
1.000	1.000	221.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	43.16	2.2399E-04	172.6	87.77	172.6	101.4	UL-RL 1.0210E+05	-18.80	128.0
1.000	1.000	215.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.10	7.2384E-05	175.1	80.47	175.1	99.15	UL-RL 1.0210E+05	-19.00	130.0
1.000	1.000	210.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	41.08	-7.6280E-05	177.5	73.38	177.5	96.91	UL-RL 1.0210E+05	-19.20	132.0
1.000	1.000	205.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	39.08	-2.2245E-04	180.0	61.33	180.0	97.28	UL-RL 1.0210E+05	-19.40	134.0
1.000	1.000	195.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	36.99	-3.6656E-04	182.5	48.89	182.5	97.95	UL-RL 1.0210E+05	-19.60	136.1
1.000	1.000	185.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	34.94	-5.0900E-04	185.0	36.61	185.0	98.62	UL-RL 1.0210E+05	-19.80	138.1
1.000	1.000	174.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	32.90	-6.5014E-04	187.5	24.44	187.5	99.31	UL-RL 1.0210E+05	-20.00	140.1
1.000	1.000	164.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	32.50	-7.9032E-04	190.0	20.39	190.0	100.0	ACTIVE 0.000	-20.20	142.1
1.000	1.000	162.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	33.08	-9.2982E-04	192.5	21.29	192.5	100.7	ACTIVE 0.000	-20.40	144.1
1.000	1.000	165.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	33.66	-1.0689E-03	195.0	22.18	195.0	101.4	ACTIVE 0.000	-20.60	146.1
1.000	1.000	168.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	34.24	-1.2077E-03	197.4	23.08	197.4	102.1	ACTIVE 0.000	-20.80	148.1
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	34.82	-1.3463E-03	199.9	23.97	199.9	102.8	ACTIVE 0.000	-21.00	150.1
1.000	1.000	174.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	17.70	-1.4850E-03	202.4	24.87	202.4	103.7	ACTIVE 0.000	-21.20	152.2
1.000	1.000	177.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.83744E-02	-1.83744E-02	-2.86491E-11	3.67489E-03
2	0.32378	-0.32378	-3.67489E-03	6.84306E-02
3	0.89806	-0.89806	-6.84306E-02	0.24804
4	1.7414	-1.7414	-0.24804	0.59633
5	2.8541	-2.8541	-0.59633	1.1672
6	4.2363	-4.2363	-1.1672	2.0144
7	5.8882	-5.8882	-2.0144	3.1920
8	7.8099	-7.8099	-3.1920	4.7540
9	10.002	-10.002	-4.7540	6.7544
10	12.464	-12.464	-6.7544	9.2471
11	15.196	-15.196	-9.2471	12.286
12	18.199	-18.199	-12.286	15.926
13	21.472	-21.472	-15.926	20.221
14	25.016	-25.016	-20.221	25.224
15	28.831	-28.831	-25.224	30.990

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP   91
C U R R E N T    T I M E   I S   1.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	32.917	-32.917	-30.990	37.574
2	37.274	-37.274	-37.574	45.028
3	41.902	-41.902	-45.028	53.409
4	46.801	-46.801	-53.409	62.769
5	51.972	-51.972	-62.769	73.164
6	64.220	-64.220	-73.164	86.008
7	75.713	-75.713	-86.008	101.15
8	86.452	-86.452	-101.15	118.44
9	96.435	-96.435	-118.44	137.73
10	105.66	-105.66	-137.73	158.86
11	114.14	-114.14	-158.86	181.69
12	121.85	-121.85	-181.69	206.06
13	128.82	-128.82	-206.06	231.82
14	135.02	-135.02	-231.82	258.83
15	140.48	-140.48	-258.83	286.92
16	145.20	-145.20	-286.92	315.96
17	149.43	-149.43	-315.96	345.85
18	153.32	-153.32	-345.85	376.51
19	156.86	-156.86	-376.51	407.89
20	160.05	-160.05	-407.89	439.90
21	162.89	-162.89	-439.90	472.47
22	165.39	-165.39	-472.47	505.55
23	167.53	-167.53	-505.55	539.06
24	169.33	-169.33	-539.06	572.92
25	170.78	-170.78	-572.92	607.08
26	171.88	-171.88	-607.08	641.46
27	172.63	-172.63	-641.46	675.98
28	173.03	-173.03	-675.98	710.59
29	173.08	-173.08	-710.59	745.21
30	172.79	-172.79	-745.21	779.76
31	172.18	-172.18	-779.76	814.20
32	171.27	-171.27	-814.20	848.45
33	170.05	-170.05	-848.45	882.47
34	168.53	-168.53	-882.47	916.17
35	166.70	-166.70	-916.17	949.51
36	164.55	-164.55	-949.51	982.42
37	162.10	-162.10	-982.42	1014.8
38	159.33	-159.33	-1014.8	1046.7
39	156.94	-156.94	-1046.7	1078.1
40	155.59	-155.59	-1078.1	1109.2
41	155.26	-155.26	-1109.2	1140.3
42	155.93	-155.93	-1140.3	1171.5
43	157.59	-157.59	-1171.5	1203.0
44	160.23	-160.23	-1203.0	1235.0
45	163.82	-163.82	-1235.0	1267.8
46	168.36	-168.36	-1267.8	1301.4
47	152.73	-152.73	-1301.4	1332.0
48	136.64	-136.64	-1332.0	1359.3
49	120.09	-120.09	-1359.3	1383.3
50	103.08	-103.08	-1383.3	1404.0
51	85.597	-85.597	-1404.0	1421.1
52	67.653	-67.653	-1421.1	1434.6
53	49.522	-49.522	-1434.6	1444.5
54	33.619	-33.619	-1444.5	1451.2
55	19.883	-19.883	-1451.2	1455.2
56	8.2501	-8.2501	-1455.2	1456.9
57	-26.619	26.619	-1456.9	1451.5
58	-59.004	59.004	-1451.5	1439.7
59	-88.985	88.985	-1439.7	1421.9
60	-116.64	116.64	-1421.9	1398.6
61	-142.06	142.06	-1398.6	1370.2
62	-165.31	165.31	-1370.2	1337.1
63	-186.48	186.48	-1337.1	1299.8
64	-205.63	205.63	-1299.8	1258.7
65	-222.85	222.85	-1258.7	1214.1
66	-238.19	238.19	-1214.1	1166.5
67	-251.74	251.74	-1166.5	1116.2
68	-263.56	263.56	-1116.2	1063.4
69	-273.70	273.70	-1063.4	1008.7
70	-282.27	282.27	-1008.7	952.25

71	-289.31	289.31	-952.25	894.39
72	-294.89	294.89	-894.39	835.41
73	-299.05	299.05	-835.41	775.60
74	-301.85	301.85	-775.60	715.23
75	-303.31	303.31	-715.23	654.57
76	-303.49	303.49	-654.57	593.87
77	-302.41	302.41	-593.87	533.39
78	-299.03	299.03	-533.39	473.58
79	-292.75	292.75	-473.58	415.03
80	-284.30	284.30	-415.03	358.17
81	-273.75	273.75	-358.17	303.42
82	-261.15	261.15	-303.42	251.19
83	-244.95	244.95	-251.19	202.20
84	-225.02	225.02	-202.20	157.20
85	-201.40	201.40	-157.20	116.91
86	-174.13	174.13	-116.91	82.089
87	-144.83	144.83	-82.089	53.123
88	-114.49	114.49	-53.123	30.225
89	-83.123	83.123	-30.225	13.600
90	-50.725	50.725	-13.600	3.4551
91	-17.276	17.276	-3.4551	-4.27463E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5968E+07  RIMNOR=0.1402E+09
            RENORM= 20.58      REMNOR=0.7500E-16  RATIO =0.1857E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 303.5      RMMAX = 1457.
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-01
            RDT   =0.5968E+07  RDR   =0.1402E+09
            RATIO=0.1857E-02  RATIO= 0.000
            MAX UN=0.3414E-08  IEQ=   50 NODE    25 DOF   2  X-ROT. F
            MIN UN=-.6971     IEQ=  167 NODE    84 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5968E+07  RIMNOR=0.1402E+09
            RENORM=0.3857E-13  REMNOR=0.6069E-16  RATIO =0.8039E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 303.5      RMMAX = 1457.
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-01
            RDT   =0.5968E+07  RDR   =0.1402E+09
            RATIO=0.8039E-10  RATIO= 0.000
            MAX UN=0.7549E-07  IEQ=   45 NODE    23 DOF   1  Y-DISPL.F
            MIN UN=-.6733E-07  IEQ=   47 NODE    24 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
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New Project
SOLUTION REACHED USING      2 ITERATIONS ON      40

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P R I N T   O U T   F O R   T I M E   S T E P   2   ( AT TIME   2.000   ) SUBINCREMENT 00001/00001

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PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

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	Y-DISPL.F	X-ROT. F
	02	04
1	4.8290675E-02	-3.4202889E-03
2	4.7606617E-02	-3.4202889E-03
3	4.6922559E-02	-3.4202866E-03
4	4.6238503E-02	-3.4202754E-03
5	4.5554451E-02	-3.4202448E-03
6	4.4870407E-02	-3.4201808E-03
7	4.4186382E-02	-3.4200652E-03
8	4.3502386E-02	-3.4198760E-03
9	4.2818438E-02	-3.4195877E-03
10	4.2134560E-02	-3.4191706E-03
11	4.1450780E-02	-3.4185914E-03
12	4.0767136E-02	-3.4178129E-03
13	4.0083671E-02	-3.4167939E-03
14	3.9400438E-02	-3.4154896E-03
15	3.8717498E-02	-3.4138513E-03
16	3.8034923E-02	-3.4118264E-03
17	3.7352694E-02	-3.4104195E-03
18	3.6670774E-02	-3.4087257E-03
19	3.5989225E-02	-3.4067085E-03
20	3.5308115E-02	-3.4043292E-03
21	3.4627520E-02	-3.4015469E-03
22	3.3947528E-02	-3.3982900E-03
23	3.3268243E-02	-3.3944605E-03
24	3.2589792E-02	-3.3899665E-03
25	3.1912309E-02	-3.3847223E-03
26	3.1235958E-02	-3.3786487E-03
27	3.0560910E-02	-3.3716723E-03
28	2.9887354E-02	-3.3637263E-03
29	2.9215492E-02	-3.3547501E-03
30	2.8545529E-02	-3.3446890E-03
31	2.7877692E-02	-3.3334950E-03
32	2.7212210E-02	-3.3211257E-03
33	2.6549322E-02	-3.3075443E-03
34	2.5889275E-02	-3.2927169E-03
35	2.5232324E-02	-3.2766131E-03
36	2.4578720E-02	-3.2592047E-03
37	2.3928730E-02	-3.2404669E-03
38	2.3282623E-02	-3.2203776E-03
39	2.2640671E-02	-3.1989177E-03
40	2.2003152E-02	-3.1760708E-03
41	2.1370339E-02	-3.1518234E-03
42	2.0742517E-02	-3.1261651E-03
43	2.0119968E-02	-3.0990882E-03
44	1.9502976E-02	-3.0705881E-03
45	1.8891830E-02	-3.0406630E-03
46	1.8286809E-02	-3.0093137E-03
47	1.7688200E-02	-2.9765443E-03
48	1.7096286E-02	-2.9423612E-03
49	1.6511349E-02	-2.9067735E-03
50	1.5933672E-02	-2.8697934E-03
51	1.5363526E-02	-2.8314348E-03
52	1.4801200E-02	-2.7917160E-03
53	1.4246941E-02	-2.7506550E-03
54	1.3701026E-02	-2.7082754E-03
55	1.3163717E-02	-2.6645993E-03
56	1.2635271E-02	-2.6196437E-03
57	1.2115944E-02	-2.5734168E-03
58	1.1605989E-02	-2.5259189E-03
59	1.1105662E-02	-2.4771422E-03
60	1.0615219E-02	-2.4270709E-03
61	1.0134921E-02	-2.3756815E-03
62	9.6650361E-03	-2.3229427E-03
63	9.2058311E-03	-2.2689003E-03
64	8.7575543E-03	-2.2136832E-03
65	8.3204273E-03	-2.1574238E-03
66	7.8946451E-03	-2.1002590E-03
67	7.4803747E-03	-2.0423292E-03
68	7.0777548E-03	-1.9837792E-03
69	6.6868946E-03	-1.9247563E-03
70	6.3078745E-03	-1.8653997E-03
71	5.9407488E-03	-1.8058309E-03
72	5.5855494E-03	-1.7461536E-03
73	5.2422819E-03	-1.6865580E-03
74	4.9109024E-03	-1.6273188E-03

75 4.5913137E-03 -1.5686906E-03
76 4.2833697E-03 -1.5109090E-03
77 3.9868792E-03 -1.4541908E-03
78 3.7016092E-03 -1.3987350E-03
79 3.4272889E-03 -1.3447231E-03
80 3.1636127E-03 -1.2923202E-03
81 2.9102437E-03 -1.2416750E-03
82 2.6668167E-03 -1.1929209E-03
83 2.4329414E-03 -1.1461761E-03
84 2.2082053E-03 -1.1015448E-03
85 1.9921766E-03 -1.0591169E-03
86 1.7844066E-03 -1.0189692E-03
87 1.5844326E-03 -9.8116570E-04
88 1.3917805E-03 -9.4575818E-04
89 1.2059670E-03 -9.1278646E-04
90 1.0264929E-03 -8.8227747E-04
91 8.5288142E-04 -8.5425148E-04
92 6.8462640E-04 -8.2871338E-04
93 5.2123047E-04 -8.0565915E-04
94 3.6219840E-04 -7.8507012E-04
95 2.0704075E-04 -7.6690617E-04
96 5.5278323E-05 -7.5110631E-04
97 -9.3554140E-05 -7.3759197E-04
98 -2.3990445E-04 -7.2626744E-04
99 -3.8419917E-04 -7.1701373E-04
100 -5.2683805E-04 -7.0968170E-04
101 -6.6818798E-04 -7.0409169E-04
102 -8.0857687E-04 -7.0003380E-04
103 -9.4829517E-04 -6.9727615E-04
104 -1.0875648E-03 -6.9557611E-04
105 -1.2265793E-03 -6.9468209E-04
106 -1.3654741E-03 -6.9433411E-04
107 -1.5043245E-03 -6.9426361E-04

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-4.8291E-02	0.000	0.000	0.5280	5.228	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.3233	-4.7607E-02	3.800	1.616	4.388	7.265	UL-RL	1.2798E+04	-0.2000	0.000	
1.000	1.000	1.616	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.5896	-4.6923E-02	7.600	2.948	8.251	9.295	UL-RL	1.2798E+04	-0.4000	0.000	
1.000	1.000	2.948	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.8557	-4.6239E-02	11.40	4.279	12.12	11.32	UL-RL	1.2798E+04	-0.6000	0.000	
1.000	1.000	4.279	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	1.122	-4.5554E-02	15.20	5.609	15.99	13.33	UL-RL	1.2798E+04	-0.8000	0.000	
1.000	1.000	5.609	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.388	-4.4870E-02	19.00	6.940	19.86	15.33	UL-RL	1.2798E+04	-1.000	0.000	
1.000	1.000	6.940	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.654	-4.4186E-02	22.80	8.270	23.73	17.33	UL-RL	1.2798E+04	-1.200	0.000	
1.000	1.000	8.270	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.920	-4.3502E-02	26.60	9.601	27.61	19.32	UL-RL	1.2798E+04	-1.400	0.000	
1.000	1.000	9.601	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	2.186	-4.2818E-02	30.40	10.93	31.49	21.30	UL-RL	1.2798E+04	-1.600	0.000	
1.000	1.000	10.93	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	2.453	-4.2135E-02	34.20	12.26	35.37	23.28	UL-RL	1.2798E+04	-1.800	0.000	
1.000	1.000	12.26	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.719	-4.1451E-02	38.00	13.60	39.26	25.24	UL-RL	1.2798E+04	-2.000	0.000	
1.000	1.000	13.60	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.985	-4.0767E-02	41.80	14.93	43.14	27.20	UL-RL	1.2798E+04	-2.200	0.000	
1.000	1.000	14.93	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	3.252	-4.0084E-02	45.60	16.26	47.03	29.16	UL-RL	1.2798E+04	-2.400	0.000	
1.000	1.000	16.26	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	3.518	-3.9400E-02	49.40	17.59	50.92	31.10	UL-RL	1.2798E+04	-2.600	0.000	
1.000	1.000	17.59	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	3.785	-3.8717E-02	53.20	18.92	54.81	33.04	UL-RL	1.2798E+04	-2.800	0.000	
1.000	1.000	18.92	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	4.051	-3.8035E-02	57.00	20.26	58.71	34.98	UL-RL	1.2798E+04	-3.000	0.000	
1.000	1.000	20.26	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	4.318	-3.7353E-02	60.80	21.59	62.60	36.90	UL-RL	1.2798E+04	-3.200	0.000	
1.000	1.000	21.59	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	4.584	-3.6671E-02	64.60	22.92	66.49	38.83	UL-RL	1.2798E+04	-3.400	0.000	
1.000	1.000	22.92	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	4.851	-3.5989E-02	68.40	24.25	70.39	40.74	UL-RL	1.2798E+04	-3.600	0.000	
1.000	1.000	24.25	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	5.117	-3.5308E-02	72.20	25.59	74.29	42.65	UL-RL	1.2798E+04	-3.800	0.000	
1.000	1.000	25.59	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	13.12	-3.4628E-02	76.00	65.59	78.18	65.65	UL-RL	2.4306E+04	-4.000	0.000	
1.000	1.000	65.59	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	13.80	-3.3948E-02	79.80	68.99	82.08	69.07	UL-RL	2.4306E+04	-4.200	0.000	

1.000	1.000	68.99	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	14.48	-3.3268E-02	83.60	72.39	85.98	72.49	UL-RL 2.4306E+04	-4.400	0.000
1.000	1.000	72.39	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	15.16	-3.2590E-02	87.40	75.79	89.87	75.91	UL-RL 2.4306E+04	-4.600	0.000
1.000	1.000	75.79	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	15.84	-3.1912E-02	91.20	79.19	93.77	79.33	UL-RL 2.4306E+04	-4.800	0.000
1.000	1.000	79.19	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	16.52	-3.1236E-02	95.00	82.59	97.67	82.76	UL-RL 2.4306E+04	-5.000	0.000
1.000	1.000	82.59	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	17.20	-3.0561E-02	98.80	85.99	101.6	86.18	UL-RL 2.4306E+04	-5.200	0.000
1.000	1.000	85.99	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	17.88	-2.9887E-02	102.6	89.39	105.5	89.60	UL-RL 2.4306E+04	-5.400	0.000
1.000	1.000	89.39	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	18.56	-2.9215E-02	106.4	92.78	109.4	93.02	UL-RL 2.4306E+04	-5.600	0.000
1.000	1.000	92.78	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	19.24	-2.8546E-02	110.2	96.18	113.3	96.44	UL-RL 2.4306E+04	-5.800	0.000
1.000	1.000	96.18	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.94	-2.7878E-02	112.9	98.59	116.0	98.87	UL-RL 2.4306E+04	-6.000	1.127
1.000	1.000	99.72	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.67	-2.7212E-02	114.7	100.2	117.9	100.5	UL-RL 2.4306E+04	-6.200	3.114
1.000	1.000	103.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.40	-2.6549E-02	116.5	101.9	119.8	102.2	UL-RL 2.4306E+04	-6.400	5.101
1.000	1.000	107.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	22.13	-2.5889E-02	118.3	103.5	121.7	103.9	UL-RL 2.4306E+04	-6.600	7.089
1.000	1.000	110.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	22.85	-2.5232E-02	120.1	105.2	123.6	105.6	UL-RL 2.4306E+04	-6.800	9.076
1.000	1.000	114.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	23.58	-2.4579E-02	121.9	106.8	125.5	107.2	UL-RL 2.4306E+04	-7.000	11.06
1.000	1.000	117.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	24.31	-2.3929E-02	123.7	108.5	127.5	108.9	UL-RL 2.4306E+04	-7.200	13.05
1.000	1.000	121.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	25.04	-2.3283E-02	125.6	110.1	129.4	110.6	UL-RL 2.4306E+04	-7.400	15.04
1.000	1.000	125.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	25.76	-2.2641E-02	127.4	111.8	131.3	112.2	UL-RL 2.4306E+04	-7.600	17.03
1.000	1.000	128.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	26.49	-2.2003E-02	129.2	113.4	133.1	113.9	UL-RL 2.4306E+04	-7.800	19.01
1.000	1.000	132.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	27.22	-2.1370E-02	131.0	115.1	135.0	115.6	UL-RL 2.4306E+04	-8.000	21.00
1.000	1.000	136.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	27.94	-2.0743E-02	132.8	116.7	136.9	117.2	UL-RL 2.4306E+04	-8.200	22.99
1.000	1.000	139.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	28.67	-2.0120E-02	134.6	118.4	138.8	118.9	UL-RL 2.4306E+04	-8.400	24.97
1.000	1.000	143.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	29.40	-1.9503E-02	136.4	120.0	140.7	120.6	UL-RL 2.4306E+04	-8.600	26.96
1.000	1.000	147.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	30.12	-1.8892E-02	138.3	121.7	142.6	122.2	UL-RL 2.4306E+04	-8.800	28.95
1.000	1.000	150.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	30.88	-1.8287E-02	140.1	123.5	144.8	124.1	UL-RL 2.4306E+04	-9.000	30.94
1.000	1.000	154.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	31.64	-1.7688E-02	141.9	125.3	146.9	126.0	UL-RL 2.4306E+04	-9.200	32.92
1.000	1.000	158.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	32.39	-1.7096E-02	143.7	127.0	149.0	127.9	UL-RL 2.4306E+04	-9.400	34.91
1.000	1.000	162.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	33.15	-1.6511E-02	145.5	128.8	151.2	129.7	UL-RL 2.4306E+04	-9.600	36.90
1.000	1.000	165.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	33.90	-1.5934E-02	147.3	130.6	153.3	131.6	UL-RL 2.4306E+04	-9.800	38.89
1.000	1.000	169.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	34.66	-1.5364E-02	149.1	132.4	155.4	133.5	UL-RL 2.4306E+04	-10.00	40.87
1.000	1.000	173.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	35.41	-1.4801E-02	150.9	134.2	157.5	135.3	UL-RL 2.4306E+04	-10.20	42.86
1.000	1.000	177.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	36.16	-1.4247E-02	152.8	136.0	159.6	137.2	UL-RL	2.4306E+04	-10.40	44.85
1.000	1.000	180.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	36.91	-1.3701E-02	154.6	137.7	161.7	139.0	UL-RL	2.4306E+04	-10.60	46.83
1.000	1.000	184.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	37.66	-1.3164E-02	156.4	139.5	163.8	140.9	UL-RL	2.4306E+04	-10.80	48.82
1.000	1.000	188.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	38.41	-1.2635E-02	158.2	141.2	165.9	142.7	UL-RL	2.4306E+04	-11.00	50.81
1.000	1.000	192.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	39.16	-1.2116E-02	160.0	143.0	168.0	144.5	UL-RL	2.4306E+04	-11.20	52.80
1.000	1.000	195.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	39.91	-1.1606E-02	161.8	144.8	170.1	146.3	UL-RL	2.4306E+04	-11.40	54.78
1.000	1.000	199.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	40.65	-1.1106E-02	163.6	146.5	172.2	148.2	UL-RL	2.4306E+04	-11.60	56.77
1.000	1.000	203.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	41.40	-1.0615E-02	165.4	148.2	174.2	150.0	UL-RL	2.4306E+04	-11.80	58.76
1.000	1.000	207.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.15	-1.0135E-02	167.3	150.0	176.3	151.8	UL-RL	2.4306E+04	-12.00	60.75
1.000	1.000	210.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	40.08	-9.6650E-03	169.2	137.7	178.5	138.3	UL-RL	8.6183E+04	-12.20	62.73
1.000	1.000	200.4	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	40.87	-9.2058E-03	171.3	139.6	180.8	140.3	UL-RL	8.6183E+04	-12.40	64.72
1.000	1.000	204.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	41.65	-8.7576E-03	173.4	141.5	183.2	142.3	UL-RL	8.6183E+04	-12.60	66.71
1.000	1.000	208.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	42.43	-8.3204E-03	175.5	143.5	185.5	144.4	UL-RL	8.6183E+04	-12.80	68.70
1.000	1.000	212.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	43.22	-7.8946E-03	177.6	145.4	187.9	146.4	UL-RL	8.6183E+04	-13.00	70.68
1.000	1.000	216.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	44.00	-7.4804E-03	179.7	147.3	190.2	148.4	UL-RL	8.6183E+04	-13.20	72.67
1.000	1.000	220.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	44.78	-7.0778E-03	181.9	149.3	192.5	150.4	UL-RL	8.6183E+04	-13.40	74.66
1.000	1.000	223.9	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	45.56	-6.6869E-03	184.0	151.2	194.9	152.4	UL-RL	8.6183E+04	-13.60	76.64
1.000	1.000	227.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	46.35	-6.3079E-03	186.1	153.1	197.2	154.4	UL-RL	8.6183E+04	-13.80	78.63
1.000	1.000	231.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	47.13	-5.9407E-03	188.2	155.0	199.5	156.4	UL-RL	8.6183E+04	-14.00	80.62
1.000	1.000	235.6	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	31.78	-5.5855E-03	190.5	76.29	202.0	99.34	UL-RL	1.1296E+05	-14.20	82.61
1.000	1.000	158.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	32.55	-5.2423E-03	193.0	78.17	204.7	100.5	UL-RL	1.1296E+05	-14.40	84.59
1.000	1.000	162.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.33	-4.9109E-03	195.5	80.04	207.4	101.7	UL-RL	1.1296E+05	-14.60	86.58
1.000	1.000	166.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.10	-4.5913E-03	198.0	81.92	210.1	102.9	UL-RL	1.1296E+05	-14.80	88.57
1.000	1.000	170.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	34.87	-4.2834E-03	200.5	83.80	212.8	104.1	UL-RL	1.1296E+05	-15.00	90.56
1.000	1.000	174.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	35.64	-3.9869E-03	203.0	85.67	215.5	105.4	UL-RL	1.1296E+05	-15.20	92.54
1.000	1.000	178.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	36.42	-3.7016E-03	205.5	87.55	218.2	106.6	UL-RL	1.1296E+05	-15.40	94.53
1.000	1.000	182.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	37.19	-3.4273E-03	208.1	89.43	220.9	107.8	UL-RL	1.1296E+05	-15.60	96.52
1.000	1.000	185.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	37.96	-3.1636E-03	210.6	91.30	223.6	109.0	UL-RL	1.1296E+05	-15.80	98.50
1.000	1.000	189.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	38.74	-2.9102E-03	213.1	93.18	226.3	110.2	UL-RL	1.1296E+05	-16.00	100.5
1.000	1.000	193.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	39.51	-2.6668E-03	215.6	95.06	229.0	111.4	UL-RL	1.1296E+05	-16.20	102.5
1.000	1.000	197.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.28	-2.4329E-03	218.1	96.94	231.7	112.6	UL-RL	1.1296E+05	-16.40	104.5
1.000	1.000	201.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	41.06	-2.2082E-03	220.6	98.82	234.4	113.8	UL-RL	1.1296E+05	-16.60	106.5
1.000	1.000	205.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	41.81	-1.9922E-03	223.1	100.6	236.8	115.0	UL-RL	1.1296E+05	-16.80	108.4
1.000	1.000	209.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	42.56	-1.7844E-03	225.7	102.4	239.2	116.2	UL-RL	1.1296E+05	-17.00	110.4
1.000	1.000	212.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	43.31	-1.5844E-03	228.2	104.1	241.7	117.4	UL-RL	1.1296E+05	-17.20	112.4
1.000	1.000	216.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	44.06	-1.3918E-03	230.7	105.9	244.1	118.6	UL-RL	1.1296E+05	-17.40	114.4
1.000	1.000	220.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	44.82	-1.2060E-03	233.2	107.7	246.6	119.8	UL-RL	1.1296E+05	-17.60	116.4
1.000	1.000	224.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	45.57	-1.0265E-03	235.7	109.5	249.0	121.0	UL-RL	1.1296E+05	-17.80	118.4
1.000	1.000	227.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	46.32	-8.5288E-04	238.2	111.3	251.5	122.3	UL-RL	1.1296E+05	-18.00	120.4
1.000	1.000	231.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	47.08	-6.8463E-04	240.7	113.0	253.9	123.5	UL-RL	1.1296E+05	-18.20	122.4
1.000	1.000	235.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	48.51	-5.2123E-04	243.2	118.2	256.3	124.7	UL-RL	1.1296E+05	-18.40	124.3
1.000	1.000	242.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	50.26	-3.6220E-04	245.8	125.0	258.8	126.4	UL-RL	1.1296E+05	-18.60	126.3
1.000	1.000	251.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	51.33	-2.0704E-04	248.3	128.3	261.2	129.7	UL-RL	1.1296E+05	-18.80	128.3
1.000	1.000	256.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	52.38	-5.5278E-05	250.8	131.6	263.7	132.9	UL-RL	1.1296E+05	-19.00	130.3
1.000	1.000	261.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	53.43	9.3554E-05	253.3	134.8	266.1	136.1	UL-RL	1.1296E+05	-19.20	132.3
1.000	1.000	267.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	55.03	2.3990E-04	255.8	140.9	268.6	142.1	UL-RL	1.1296E+05	-19.40	134.3
1.000	1.000	275.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	56.68	3.8420E-04	258.3	147.1	271.0	148.3	UL-RL	1.1296E+05	-19.60	136.3
1.000	1.000	283.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	58.32	5.2684E-04	260.8	153.3	273.5	154.5	UL-RL	1.1296E+05	-19.80	138.3
1.000	1.000	291.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	59.95	6.6819E-04	263.3	159.5	275.9	160.7	UL-RL	1.1296E+05	-20.00	140.2
1.000	1.000	299.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	61.58	8.0858E-04	265.9	165.7	278.4	166.8	UL-RL	1.1296E+05	-20.20	142.2
1.000	1.000	307.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	63.20	9.4830E-04	268.4	171.8	280.8	172.9	UL-RL	1.1296E+05	-20.40	144.2
1.000	1.000	316.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	64.82	1.0876E-03	270.9	177.9	283.3	178.9	UL-RL	1.1296E+05	-20.60	146.2
1.000	1.000	324.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	66.44	1.2266E-03	273.4	184.0	285.7	185.0	UL-RL	1.1296E+05	-20.80	148.2
1.000	1.000	332.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	68.08	1.3655E-03	275.9	190.2	288.2	191.2	UL-RL	1.1296E+05	-21.00	150.2
1.000	1.000	340.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	34.89	1.5043E-03	278.4	196.7	290.6	197.6	UL-RL	1.1296E+05	-21.20	152.2
1.000	1.000	348.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

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O_R                                     :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 2.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
21 D	0.7856	3.4628E-02	0.000	3.928	0.000	6.560	UL-RL 2.3432E+04		-4.000	0.000	
1.000	1.000	3.928	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.225	3.3948E-02	3.800	11.12	3.800	11.60	UL-RL 2.3432E+04		-4.200	0.000	
1.000	1.000	11.12	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	3.664	3.3268E-02	7.600	18.32	7.600	18.80	UL-RL 2.3432E+04		-4.400	0.000	
1.000	1.000	18.32	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	5.103	3.2590E-02	11.40	25.51	11.40	26.00	UL-RL 2.3432E+04		-4.600	0.000	
1.000	1.000	25.51	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	6.542	3.1912E-02	15.20	32.71	15.20	33.19	UL-RL 2.3432E+04		-4.800	0.000	
1.000	1.000	32.71	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	7.981	3.1236E-02	19.00	39.90	19.00	40.39	UL-RL 2.3432E+04		-5.000	0.000	
1.000	1.000	39.90	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	9.420	3.0561E-02	22.80	47.10	22.80	47.59	UL-RL 2.3432E+04		-5.200	0.000	
1.000	1.000	47.10	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	10.86	2.9887E-02	26.60	54.29	26.60	54.78	UL-RL 2.3432E+04		-5.400	0.000	
1.000	1.000	54.29	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	12.30	2.9215E-02	30.40	61.49	30.40	61.98	UL-RL 2.3432E+04	-5.600	0.000
1.000	1.000	61.49	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	13.74	2.8546E-02	34.20	68.69	34.20	69.18	UL-RL 2.3432E+04	-5.800	0.000
1.000	1.000	68.69	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.18	2.7878E-02	38.00	75.88	38.00	76.38	UL-RL 2.3432E+04	-6.000	0.000
1.000	1.000	75.88	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.40	2.7212E-02	40.59	80.78	40.59	81.28	UL-RL 2.3432E+04	-6.200	1.211
1.000	1.000	81.99	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	17.48	2.6549E-02	42.38	84.17	42.38	84.67	UL-RL 2.3432E+04	-6.400	3.223
1.000	1.000	87.39	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	18.56	2.5889E-02	44.16	87.55	44.16	88.05	UL-RL 2.3432E+04	-6.600	5.236
1.000	1.000	92.78	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	19.64	2.5232E-02	45.95	90.93	45.95	91.44	UL-RL 2.3432E+04	-6.800	7.249
1.000	1.000	98.18	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	20.72	2.4579E-02	47.74	94.31	47.74	94.82	UL-RL 2.3432E+04	-7.000	9.261
1.000	1.000	103.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	21.79	2.3929E-02	49.53	97.70	49.53	98.21	UL-RL 2.3432E+04	-7.200	11.27
1.000	1.000	109.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.87	2.3283E-02	51.31	101.1	51.31	101.6	UL-RL 2.3432E+04	-7.400	13.29
1.000	1.000	114.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	23.95	2.2641E-02	53.10	104.5	53.10	105.0	UL-RL 2.3432E+04	-7.600	15.30
1.000	1.000	119.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	25.03	2.2003E-02	54.89	107.8	54.89	108.4	UL-RL 2.3432E+04	-7.800	17.31
1.000	1.000	125.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	26.11	2.1370E-02	56.68	111.2	56.68	111.7	UL-RL 2.3432E+04	-8.000	19.32
1.000	1.000	130.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	27.19	2.0743E-02	58.46	114.6	58.46	115.1	UL-RL 2.3432E+04	-8.200	21.34
1.000	1.000	136.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	28.27	2.0120E-02	60.25	118.0	60.25	118.5	UL-RL 2.3432E+04	-8.400	23.35
1.000	1.000	141.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	29.35	1.9503E-02	62.04	121.4	62.04	121.9	UL-RL 2.3432E+04	-8.600	25.36
1.000	1.000	146.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	30.43	1.8892E-02	63.82	124.8	63.82	125.3	UL-RL 2.3432E+04	-8.800	27.38
1.000	1.000	152.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	31.51	1.8287E-02	65.61	128.2	65.61	128.7	UL-RL 2.3432E+04	-9.000	29.39
1.000	1.000	157.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	32.59	1.7688E-02	67.40	131.5	67.40	132.1	UL-RL 2.3432E+04	-9.200	31.40
1.000	1.000	162.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	33.67	1.7096E-02	69.19	134.9	69.19	135.4	UL-RL 2.3432E+04	-9.400	33.41
1.000	1.000	168.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	34.75	1.6511E-02	70.97	138.3	70.97	138.8	UL-RL 2.3432E+04	-9.600	35.43
1.000	1.000	173.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	35.83	1.5934E-02	72.76	141.7	72.76	142.2	UL-RL 2.3432E+04	-9.800	37.44
1.000	1.000	179.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	36.91	1.5364E-02	74.55	145.1	74.55	145.6	UL-RL 2.3432E+04	-10.00	39.45
1.000	1.000	184.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	37.99	1.4801E-02	76.34	148.5	76.34	149.0	UL-RL 2.3432E+04	-10.20	41.46
1.000	1.000	189.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	39.07	1.4247E-02	78.12	151.9	78.12	152.4	UL-RL 2.3432E+04	-10.40	43.48
1.000	1.000	195.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	39.46	1.3701E-02	79.91	151.8	79.91	152.3	UL-RL 2.3432E+04	-10.60	45.49
1.000	1.000	197.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	39.19	1.3164E-02	81.70	148.4	81.70	148.9	UL-RL 2.3432E+04	-10.80	47.50
1.000	1.000	195.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	38.93	1.2635E-02	83.48	145.2	83.48	145.7	UL-RL 2.3432E+04	-11.00	49.52
1.000	1.000	194.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	38.69	1.2116E-02	85.27	141.9	85.27	142.4	UL-RL 2.3432E+04	-11.20	51.53
1.000	1.000	193.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	38.47	1.1606E-02	87.06	138.8	87.06	139.3	UL-RL 2.3432E+04	-11.40	53.54
1.000	1.000	192.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	38.25	1.1106E-02	88.85	135.7	88.85	136.2	UL-RL 2.3432E+04	-11.60	55.55
1.000	1.000	191.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	38.06	1.0615E-02	90.63	132.7	90.63	133.2	UL-RL 2.3432E+04	-11.80	57.57	
1.000	1.000	190.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	37.88	1.0135E-02	92.42	129.8	92.42	130.3	UL-RL 2.3432E+04	-12.00	59.58	
1.000	1.000	189.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	55.53	9.6650E-03	94.33	216.0	94.33	217.6	UL-RL 7.7899E+04	-12.20	61.59	
1.000	1.000	277.6	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	56.79	9.2058E-03	96.42	220.4	96.42	221.9	UL-RL 7.7899E+04	-12.40	63.60	
1.000	1.000	284.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	58.06	8.7576E-03	98.50	224.7	98.50	226.2	UL-RL 7.7899E+04	-12.60	65.62	
1.000	1.000	290.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	59.33	8.3204E-03	100.6	229.0	100.6	230.5	UL-RL 7.7899E+04	-12.80	67.63	
1.000	1.000	296.6	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	60.60	7.8946E-03	102.7	233.3	102.7	234.8	UL-RL 7.7899E+04	-13.00	69.64	
1.000	1.000	303.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	61.86	7.4804E-03	104.8	237.7	104.8	239.1	UL-RL 7.7899E+04	-13.20	71.65	
1.000	1.000	309.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	62.85	7.0778E-03	106.9	240.6	106.9	242.0	UL-RL 7.7899E+04	-13.40	73.67	
1.000	1.000	314.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	61.42	6.6869E-03	108.9	231.4	108.9	232.9	UL-RL 7.7899E+04	-13.60	75.68	
1.000	1.000	307.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	60.06	6.3079E-03	111.0	222.6	111.0	224.0	UL-RL 7.7899E+04	-13.80	77.69	
1.000	1.000	300.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	58.75	5.9407E-03	113.1	214.1	113.1	215.4	UL-RL 7.7899E+04	-14.00	79.71	
1.000	1.000	293.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	66.48	5.5855E-03	115.4	250.7	115.4	252.5	UL-RL 1.0210E+05	-14.20	81.72	
1.000	1.000	332.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	64.79	5.2423E-03	117.8	240.2	117.8	242.0	UL-RL 1.0210E+05	-14.40	83.73	
1.000	1.000	323.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	63.18	4.9109E-03	120.3	230.1	120.3	231.9	UL-RL 1.0210E+05	-14.60	85.74	
1.000	1.000	315.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	61.64	4.5913E-03	122.8	220.5	122.8	222.2	UL-RL 1.0210E+05	-14.80	87.76	
1.000	1.000	308.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	60.19	4.2834E-03	125.3	211.2	125.3	212.9	UL-RL 1.0210E+05	-15.00	89.77	
1.000	1.000	300.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	58.81	3.9869E-03	127.8	202.3	127.8	204.0	UL-RL 1.0210E+05	-15.20	91.78	
1.000	1.000	294.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	57.51	3.7016E-03	130.3	193.8	130.3	195.5	UL-RL 1.0210E+05	-15.40	93.79	
1.000	1.000	287.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	56.29	3.4273E-03	132.8	185.6	132.8	187.3	UL-RL 1.0210E+05	-15.60	95.81	
1.000	1.000	281.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	55.14	3.1636E-03	135.3	177.9	135.3	179.5	UL-RL 1.0210E+05	-15.80	97.82	
1.000	1.000	275.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	54.05	2.9102E-03	137.7	170.4	137.7	172.1	UL-RL 1.0210E+05	-16.00	99.83	
1.000	1.000	270.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	53.04	2.6668E-03	140.2	163.3	140.2	165.0	UL-RL 1.0210E+05	-16.20	101.8	
1.000	1.000	265.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	52.09	2.4329E-03	142.7	156.6	142.7	158.2	UL-RL 1.0210E+05	-16.40	103.9	
1.000	1.000	260.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	51.20	2.2082E-03	145.2	150.1	145.2	151.8	UL-RL 1.0210E+05	-16.60	105.9	
1.000	1.000	256.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	50.37	1.9922E-03	147.7	144.0	147.7	145.6	UL-RL 1.0210E+05	-16.80	107.9	
1.000	1.000	251.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	49.60	1.7844E-03	150.2	138.1	150.2	139.8	UL-RL 1.0210E+05	-17.00	109.9	
1.000	1.000	248.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	48.88	1.5844E-03	152.7	132.5	152.7	134.1	UL-RL 1.0210E+05	-17.20	111.9	
1.000	1.000	244.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	48.21	1.3918E-03	155.2	127.1	155.2	128.8	UL-RL 1.0210E+05	-17.40	113.9	
1.000	1.000	241.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	47.59	1.2060E-03	157.6	122.0	157.6	123.7	UL-RL 1.0210E+05	-17.60	115.9	
1.000	1.000	237.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	47.01	1.0265E-03	160.1	117.1	160.1	118.8	UL-RL 1.0210E+05	-17.80	117.9	

1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	46.47	8.5288E-04	162.6	112.4	162.6	114.0	UL-RL 1.0210E+05	-18.00	120.0
1.000	1.000	232.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	45.96	6.8463E-04	165.1	107.8	165.1	109.5	UL-RL 1.0210E+05	-18.20	122.0
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	45.08	5.2123E-04	167.6	101.4	167.6	106.2	UL-RL 1.0210E+05	-18.40	124.0
1.000	1.000	225.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	43.92	3.6220E-04	170.1	93.60	170.1	103.8	UL-RL 1.0210E+05	-18.60	126.0
1.000	1.000	219.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.81	2.0704E-04	172.6	86.04	172.6	101.4	UL-RL 1.0210E+05	-18.80	128.0
1.000	1.000	214.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	41.75	5.5278E-05	175.1	78.73	175.1	99.15	UL-RL 1.0210E+05	-19.00	130.0
1.000	1.000	208.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	40.73	-9.3554E-05	177.5	71.61	177.5	96.91	UL-RL 1.0210E+05	-19.20	132.0
1.000	1.000	203.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	38.72	-2.3990E-04	180.0	59.55	180.0	97.28	UL-RL 1.0210E+05	-19.40	134.0
1.000	1.000	193.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	36.63	-3.8420E-04	182.5	47.09	182.5	97.95	UL-RL 1.0210E+05	-19.60	136.1
1.000	1.000	183.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	34.57	-5.2684E-04	185.0	34.79	185.0	98.62	UL-RL 1.0210E+05	-19.80	138.1
1.000	1.000	172.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	32.54	-6.6819E-04	187.5	22.59	187.5	99.31	UL-RL 1.0210E+05	-20.00	140.1
1.000	1.000	162.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	32.50	-8.0858E-04	190.0	20.39	190.0	100.0	ACTIVE 0.000	-20.20	142.1
1.000	1.000	162.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	33.08	-9.4830E-04	192.5	21.29	192.5	100.7	ACTIVE 0.000	-20.40	144.1
1.000	1.000	165.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	33.66	-1.0876E-03	195.0	22.18	195.0	101.4	ACTIVE 0.000	-20.60	146.1
1.000	1.000	168.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	34.24	-1.2266E-03	197.4	23.08	197.4	102.1	ACTIVE 0.000	-20.80	148.1
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	34.82	-1.3655E-03	199.9	23.97	199.9	102.8	ACTIVE 0.000	-21.00	150.1
1.000	1.000	174.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	17.70	-1.5043E-03	202.4	24.87	202.4	103.7	ACTIVE 0.000	-21.20	152.2
1.000	1.000	177.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-1.88391E-08	1.88391E-08	-1.88576E-09	-2.05895E-09
2	0.32330	-0.32330	3.86386E-10	6.46591E-02
3	0.91290	-0.91290	-6.46591E-02	0.24724
4	1.7686	-1.7686	-0.24724	0.60096
5	2.8904	-2.8904	-0.60096	1.1790
6	4.2783	-4.2783	-1.1790	2.0347
7	5.9323	-5.9323	-2.0347	3.2212
8	7.8526	-7.8526	-3.2212	4.7917
9	10.039	-10.039	-4.7917	6.7995
10	12.492	-12.492	-6.7995	9.2979
11	15.211	-15.211	-9.2979	12.340
12	18.196	-18.196	-12.340	15.979
13	21.448	-21.448	-15.979	20.269
14	24.966	-24.966	-20.269	25.262
15	28.751	-28.751	-25.262	31.012


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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE      2  NO.OF ELEMENTS. IN THIS GROUP  91
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	32.802	-32.802	-31.012	37.573
2	37.120	-37.120	-37.573	44.997
3	41.704	-41.704	-44.997	53.337
4	46.554	-46.554	-53.337	62.648
5	51.671	-51.671	-62.648	72.982
6	64.004	-64.004	-72.982	85.783
7	75.577	-75.577	-85.783	100.90
8	86.391	-86.391	-100.90	118.18
9	96.446	-96.446	-118.18	137.47
10	105.74	-105.74	-137.47	158.61
11	114.28	-114.28	-158.61	181.47
12	122.05	-122.05	-181.47	205.88
13	129.07	-129.07	-205.88	231.69
14	135.33	-135.33	-231.69	258.76
15	140.83	-140.83	-258.76	286.93
16	145.60	-145.60	-286.93	316.05
17	149.87	-149.87	-316.05	346.02
18	153.79	-153.79	-346.02	376.78
19	157.36	-157.36	-376.78	408.25
20	160.58	-160.58	-408.25	440.37
21	163.45	-163.45	-440.37	473.06
22	165.97	-165.97	-473.06	506.25
23	168.13	-168.13	-506.25	539.88
24	169.94	-169.94	-539.88	573.87
25	171.40	-171.40	-573.87	608.15
26	172.50	-172.50	-608.15	642.65
27	173.26	-173.26	-642.65	677.30
28	173.65	-173.65	-677.30	712.03
29	173.70	-173.70	-712.03	746.77
30	173.39	-173.39	-746.77	781.45
31	172.76	-172.76	-781.45	816.00
32	171.81	-171.81	-816.00	850.36
33	170.53	-170.53	-850.36	884.47
34	168.93	-168.93	-884.47	918.25
35	167.00	-167.00	-918.25	951.65
36	164.75	-164.75	-951.65	984.60
37	162.17	-162.17	-984.60	1017.0
38	159.26	-159.26	-1017.0	1048.9
39	156.71	-156.71	-1048.9	1080.2
40	155.19	-155.19	-1080.2	1111.3
41	154.66	-154.66	-1111.3	1142.2
42	155.13	-155.13	-1142.2	1173.2
43	156.57	-156.57	-1173.2	1204.5
44	158.97	-158.97	-1204.5	1236.3
45	162.31	-162.31	-1236.3	1268.8
46	166.58	-166.58	-1268.8	1302.1
47	151.14	-151.14	-1302.1	1332.3
48	135.21	-135.21	-1332.3	1359.4
49	118.80	-118.80	-1359.4	1383.1
50	101.91	-101.91	-1383.1	1403.5
51	84.527	-84.527	-1403.5	1420.4
52	66.663	-66.663	-1420.4	1433.8
53	48.593	-48.593	-1433.8	1443.5
54	32.733	-32.733	-1443.5	1450.0
55	19.021	-19.021	-1450.0	1453.8
56	7.3943	-7.3943	-1453.8	1455.3
57	-27.308	27.308	-1455.3	1449.9
58	-59.544	59.544	-1449.9	1437.9
59	-89.395	89.395	-1437.9	1420.1
60	-116.94	116.94	-1420.1	1396.7
61	-142.26	142.26	-1396.7	1368.2
62	-165.43	165.43	-1368.2	1335.1
63	-186.53	186.53	-1335.1	1297.8
64	-205.63	205.63	-1297.8	1256.7
65	-222.80	222.80	-1256.7	1212.1
66	-238.12	238.12	-1212.1	1164.5
67	-251.65	251.65	-1164.5	1114.2
68	-263.46	263.46	-1114.2	1061.5
69	-273.61	273.61	-1061.5	1006.8
70	-282.17	282.17	-1006.8	950.34

71	-289.21	289.21	-950.34	892.50
72	-294.78	294.78	-892.50	833.54
73	-298.92	298.92	-833.54	773.76
74	-301.69	301.69	-773.76	713.42
75	-303.13	303.13	-713.42	652.79
76	-303.27	303.27	-652.79	592.14
77	-302.15	302.15	-592.14	531.71
78	-298.72	298.72	-531.71	471.97
79	-292.37	292.37	-471.97	413.49
80	-283.85	283.85	-413.49	356.72
81	-273.22	273.22	-356.72	302.08
82	-260.52	260.52	-302.08	249.97
83	-244.22	244.22	-249.97	201.13
84	-224.17	224.17	-201.13	156.29
85	-200.43	200.43	-156.29	116.21
86	-173.01	173.01	-116.21	81.606
87	-143.93	143.93	-81.606	52.818
88	-113.81	113.81	-52.818	30.056
89	-82.647	82.647	-30.056	13.526
90	-50.446	50.446	-13.526	3.4370
91	-17.186	17.186	-3.4370	-1.11697E-10

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5960E+07  RIMNOR=0.1402E+09
            RENORM=0.3857E-13  REMNOR=0.6069E-16  RATIO =0.8044E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 303.3      RMMAX = 1455.
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-01
            RDT   =0.5960E+07  RDR   =0.1402E+09
            RATIO=0.8044E-10  RATIO= 0.000
            MAX UN=0.7549E-07  IEQ=   45 NODE    23 DOF    1  Y-DISPL.F
            MIN UN=-.6733E-07  IEQ=   47 NODE    24 DOF    1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      1  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5960E+07  RIMNOR=0.1402E+09
            RENORM=0.2374E-13  REMNOR=0.8897E-16  RATIO =0.6312E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 303.3      RMMAX = 1455.
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-01
            RDT   =0.5960E+07  RDR   =0.1402E+09
            RATIO=0.6312E-10  RATIO= 0.000
            MAX UN=0.5096E-07  IEQ=   49 NODE    25 DOF    1  Y-DISPL.F
            MIN UN=-.6099E-07  IEQ=   47 NODE    24 DOF    1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5960E+07  RIMNOR=0.1402E+09
            RENORM=0.1665E-13  REMNOR=0.6346E-16  RATIO =0.5285E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 303.3      RMMAX = 1455.
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-01
            RDT   =0.5960E+07  RDR   =0.1402E+09
            RATIO=0.5285E-10  RATIO= 0.000
            MAX UN=0.3161E-07  IEQ=   55 NODE    28 DOF    1  Y-DISPL.F
            MIN UN=-.3308E-07  IEQ=   53 NODE    27 DOF    1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus |
|                                                                                               Exe Time :28 January 2022  15:35:00 |
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New Project
SOLUTION REACHED USING      2 ITERATIONS ON      40

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PRINT OUT FOR TIME STEP 3 ( AT TIME 3.000 ) SUBINCREMENT 00001/00001

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PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

```

	Y-DISPL.F	X-ROT. F
	02	04
1	4.8290675E-02	-3.4202889E-03
2	4.7606617E-02	-3.4202889E-03
3	4.6922559E-02	-3.4202866E-03
4	4.6238503E-02	-3.4202754E-03
5	4.5554451E-02	-3.4202448E-03
6	4.4870407E-02	-3.4201808E-03
7	4.4186382E-02	-3.4200652E-03
8	4.3502386E-02	-3.4198760E-03
9	4.2818438E-02	-3.4195877E-03
10	4.2134560E-02	-3.4191706E-03
11	4.1450780E-02	-3.4185914E-03
12	4.0767136E-02	-3.4178129E-03
13	4.0083671E-02	-3.4167939E-03
14	3.9400438E-02	-3.4154896E-03
15	3.8717498E-02	-3.4138513E-03
16	3.8034923E-02	-3.4118264E-03
17	3.7352694E-02	-3.4104195E-03
18	3.6670774E-02	-3.4087257E-03
19	3.5989225E-02	-3.4067085E-03
20	3.5308115E-02	-3.4043292E-03
21	3.4627520E-02	-3.4015469E-03
22	3.3947528E-02	-3.3982900E-03
23	3.3268243E-02	-3.3944605E-03
24	3.2589792E-02	-3.3899665E-03
25	3.1912309E-02	-3.3847223E-03
26	3.1235958E-02	-3.3786487E-03
27	3.0560910E-02	-3.3716723E-03
28	2.9887354E-02	-3.3637263E-03
29	2.9215492E-02	-3.3547501E-03
30	2.8545529E-02	-3.3446890E-03
31	2.7877692E-02	-3.3334950E-03
32	2.7212210E-02	-3.3211257E-03
33	2.6549322E-02	-3.3075443E-03
34	2.5889275E-02	-3.2927169E-03
35	2.5232324E-02	-3.2766131E-03
36	2.4578720E-02	-3.2592047E-03
37	2.3928730E-02	-3.2404669E-03
38	2.3282623E-02	-3.2203776E-03
39	2.2640671E-02	-3.1989177E-03
40	2.2003152E-02	-3.1760708E-03
41	2.1370339E-02	-3.1518234E-03
42	2.0742517E-02	-3.1261651E-03
43	2.0119968E-02	-3.0990882E-03
44	1.9502976E-02	-3.0705881E-03
45	1.8891830E-02	-3.0406630E-03
46	1.8286809E-02	-3.0093137E-03
47	1.7688200E-02	-2.9765443E-03
48	1.7096286E-02	-2.9423612E-03
49	1.6511349E-02	-2.9067735E-03
50	1.5933672E-02	-2.8697934E-03
51	1.5363526E-02	-2.8314348E-03
52	1.4801200E-02	-2.7917160E-03
53	1.4246941E-02	-2.7506550E-03
54	1.3701026E-02	-2.7082754E-03
55	1.3163717E-02	-2.6645993E-03
56	1.2635271E-02	-2.6196437E-03
57	1.2115944E-02	-2.5734168E-03
58	1.1605989E-02	-2.5259189E-03
59	1.1105662E-02	-2.4771422E-03
60	1.0615219E-02	-2.4270709E-03
61	1.0134921E-02	-2.3756815E-03
62	9.6650361E-03	-2.3229427E-03
63	9.2058311E-03	-2.2689003E-03
64	8.7575543E-03	-2.2136832E-03
65	8.3204273E-03	-2.1574238E-03
66	7.8946451E-03	-2.1002590E-03
67	7.4803747E-03	-2.0423292E-03
68	7.0777548E-03	-1.9837792E-03
69	6.6868946E-03	-1.9247563E-03
70	6.3078745E-03	-1.8653997E-03
71	5.9407488E-03	-1.8058309E-03
72	5.5855494E-03	-1.7461536E-03
73	5.2422819E-03	-1.6865580E-03
74	4.9109024E-03	-1.6273188E-03

75 4.5913137E-03 -1.5686906E-03
76 4.2833697E-03 -1.5109090E-03
77 3.9868792E-03 -1.4541908E-03
78 3.7016092E-03 -1.3987350E-03
79 3.4272889E-03 -1.3447231E-03
80 3.1636127E-03 -1.2923202E-03
81 2.9102437E-03 -1.2416750E-03
82 2.6668167E-03 -1.1929209E-03
83 2.4329414E-03 -1.1461761E-03
84 2.2082053E-03 -1.1015448E-03
85 1.9921766E-03 -1.0591169E-03
86 1.7844066E-03 -1.0189692E-03
87 1.5844326E-03 -9.8116570E-04
88 1.3917805E-03 -9.4575818E-04
89 1.2059670E-03 -9.1278646E-04
90 1.0264929E-03 -8.8227747E-04
91 8.5288142E-04 -8.5425148E-04
92 6.8462640E-04 -8.2871338E-04
93 5.2123047E-04 -8.0565915E-04
94 3.6219840E-04 -7.8507012E-04
95 2.0704075E-04 -7.6690617E-04
96 5.5278323E-05 -7.5110631E-04
97 -9.3554140E-05 -7.3759197E-04
98 -2.3990445E-04 -7.2626744E-04
99 -3.8419917E-04 -7.1701373E-04
100 -5.2683805E-04 -7.0968170E-04
101 -6.6818798E-04 -7.0409169E-04
102 -8.0857687E-04 -7.0003380E-04
103 -9.4829517E-04 -6.9727615E-04
104 -1.0875648E-03 -6.9557611E-04
105 -1.2265793E-03 -6.9468209E-04
106 -1.3654741E-03 -6.9433411E-04
107 -1.5043245E-03 -6.9426361E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

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0_L          :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-4.8291E-02	0.000	0.000	0.5280	5.228	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.3233	-4.7607E-02	3.800	1.616	4.388	7.265	UL-RL	1.2798E+04	-0.2000	0.000	
1.000	1.000	1.616	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.5896	-4.6923E-02	7.600	2.948	8.251	9.295	UL-RL	1.2798E+04	-0.4000	0.000	
1.000	1.000	2.948	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.8557	-4.6239E-02	11.40	4.279	12.12	11.32	UL-RL	1.2798E+04	-0.6000	0.000	
1.000	1.000	4.279	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	1.122	-4.5554E-02	15.20	5.609	15.99	13.33	UL-RL	1.2798E+04	-0.8000	0.000	
1.000	1.000	5.609	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.388	-4.4870E-02	19.00	6.940	19.86	15.33	UL-RL	1.2798E+04	-1.000	0.000	
1.000	1.000	6.940	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.654	-4.4186E-02	22.80	8.270	23.73	17.33	UL-RL	1.2798E+04	-1.200	0.000	
1.000	1.000	8.270	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.920	-4.3502E-02	26.60	9.601	27.61	19.32	UL-RL	1.2798E+04	-1.400	0.000	
1.000	1.000	9.601	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	2.186	-4.2818E-02	30.40	10.93	31.49	21.30	UL-RL	1.2798E+04	-1.600	0.000	
1.000	1.000	10.93	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	2.453	-4.2135E-02	34.20	12.26	35.37	23.28	UL-RL	1.2798E+04	-1.800	0.000	
1.000	1.000	12.26	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.719	-4.1451E-02	38.00	13.60	39.26	25.24	UL-RL	1.2798E+04	-2.000	0.000	
1.000	1.000	13.60	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.985	-4.0767E-02	41.80	14.93	43.14	27.20	UL-RL	1.2798E+04	-2.200	0.000	
1.000	1.000	14.93	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	3.252	-4.0084E-02	45.60	16.26	47.03	29.16	UL-RL	1.2798E+04	-2.400	0.000	
1.000	1.000	16.26	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	3.518	-3.9400E-02	49.40	17.59	50.92	31.10	UL-RL	1.2798E+04	-2.600	0.000	
1.000	1.000	17.59	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	3.785	-3.8717E-02	53.20	18.92	54.81	33.04	UL-RL	1.2798E+04	-2.800	0.000	
1.000	1.000	18.92	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	4.051	-3.8035E-02	57.00	20.26	58.71	34.98	UL-RL	1.2798E+04	-3.000	0.000	
1.000	1.000	20.26	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	4.318	-3.7353E-02	60.80	21.59	62.60	36.90	UL-RL	1.2798E+04	-3.200	0.000	
1.000	1.000	21.59	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	4.584	-3.6671E-02	64.60	22.92	66.49	38.83	UL-RL	1.2798E+04	-3.400	0.000	
1.000	1.000	22.92	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	4.851	-3.5989E-02	68.40	24.25	70.39	40.74	UL-RL	1.2798E+04	-3.600	0.000	
1.000	1.000	24.25	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	5.117	-3.5308E-02	72.20	25.59	74.29	42.65	UL-RL	1.2798E+04	-3.800	0.000	
1.000	1.000	25.59	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	13.12	-3.4628E-02	76.00	65.59	78.18	65.65	UL-RL	2.4306E+04	-4.000	0.000	
1.000	1.000	65.59	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	13.80	-3.3948E-02	79.80	68.99	82.08	69.07	UL-RL	2.4306E+04	-4.200	0.000	

1.000	1.000	68.99	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	14.48	-3.3268E-02	83.60	72.39	85.98	72.49	UL-RL 2.4306E+04	-4.400	0.000
1.000	1.000	72.39	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	15.16	-3.2590E-02	87.40	75.79	89.87	75.91	UL-RL 2.4306E+04	-4.600	0.000
1.000	1.000	75.79	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	15.84	-3.1912E-02	91.20	79.19	93.77	79.33	UL-RL 2.4306E+04	-4.800	0.000
1.000	1.000	79.19	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	16.52	-3.1236E-02	95.00	82.59	97.67	82.76	UL-RL 2.4306E+04	-5.000	0.000
1.000	1.000	82.59	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	17.20	-3.0561E-02	98.80	85.99	101.6	86.18	UL-RL 2.4306E+04	-5.200	0.000
1.000	1.000	85.99	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	17.88	-2.9887E-02	102.6	89.39	105.5	89.60	UL-RL 2.4306E+04	-5.400	0.000
1.000	1.000	89.39	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	18.56	-2.9215E-02	106.4	92.78	109.4	93.02	UL-RL 2.4306E+04	-5.600	0.000
1.000	1.000	92.78	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	19.24	-2.8546E-02	110.2	96.18	113.3	96.44	UL-RL 2.4306E+04	-5.800	0.000
1.000	1.000	96.18	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.94	-2.7878E-02	112.9	98.59	116.0	98.87	UL-RL 2.4306E+04	-6.000	1.127
1.000	1.000	99.72	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.67	-2.7212E-02	114.7	100.2	117.9	100.5	UL-RL 2.4306E+04	-6.200	3.114
1.000	1.000	103.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.40	-2.6549E-02	116.5	101.9	119.8	102.2	UL-RL 2.4306E+04	-6.400	5.101
1.000	1.000	107.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	22.13	-2.5889E-02	118.3	103.5	121.7	103.9	UL-RL 2.4306E+04	-6.600	7.089
1.000	1.000	110.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	22.85	-2.5232E-02	120.1	105.2	123.6	105.6	UL-RL 2.4306E+04	-6.800	9.076
1.000	1.000	114.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	23.58	-2.4579E-02	121.9	106.8	125.5	107.2	UL-RL 2.4306E+04	-7.000	11.06
1.000	1.000	117.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	24.31	-2.3929E-02	123.7	108.5	127.5	108.9	UL-RL 2.4306E+04	-7.200	13.05
1.000	1.000	121.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	25.04	-2.3283E-02	125.6	110.1	129.4	110.6	UL-RL 2.4306E+04	-7.400	15.04
1.000	1.000	125.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	25.76	-2.2641E-02	127.4	111.8	131.3	112.2	UL-RL 2.4306E+04	-7.600	17.03
1.000	1.000	128.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	26.49	-2.2003E-02	129.2	113.4	133.1	113.9	UL-RL 2.4306E+04	-7.800	19.01
1.000	1.000	132.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	27.22	-2.1370E-02	131.0	115.1	135.0	115.6	UL-RL 2.4306E+04	-8.000	21.00
1.000	1.000	136.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	27.94	-2.0743E-02	132.8	116.7	136.9	117.2	UL-RL 2.4306E+04	-8.200	22.99
1.000	1.000	139.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	28.67	-2.0120E-02	134.6	118.4	138.8	118.9	UL-RL 2.4306E+04	-8.400	24.97
1.000	1.000	143.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	29.40	-1.9503E-02	136.4	120.0	140.7	120.6	UL-RL 2.4306E+04	-8.600	26.96
1.000	1.000	147.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	30.12	-1.8892E-02	138.3	121.7	142.6	122.2	UL-RL 2.4306E+04	-8.800	28.95
1.000	1.000	150.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	30.88	-1.8287E-02	140.1	123.5	144.8	124.1	UL-RL 2.4306E+04	-9.000	30.94
1.000	1.000	154.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	31.64	-1.7688E-02	141.9	125.3	146.9	126.0	UL-RL 2.4306E+04	-9.200	32.92
1.000	1.000	158.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	32.39	-1.7096E-02	143.7	127.0	149.0	127.9	UL-RL 2.4306E+04	-9.400	34.91
1.000	1.000	162.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	33.15	-1.6511E-02	145.5	128.8	151.2	129.7	UL-RL 2.4306E+04	-9.600	36.90
1.000	1.000	165.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	33.90	-1.5934E-02	147.3	130.6	153.3	131.6	UL-RL 2.4306E+04	-9.800	38.89
1.000	1.000	169.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	34.66	-1.5364E-02	149.1	132.4	155.4	133.5	UL-RL 2.4306E+04	-10.00	40.87
1.000	1.000	173.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	35.41	-1.4801E-02	150.9	134.2	157.5	135.3	UL-RL 2.4306E+04	-10.20	42.86
1.000	1.000	177.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	36.16	-1.4247E-02	152.8	136.0	159.6	137.2	UL-RL	2.4306E+04	-10.40	44.85
1.000	1.000	180.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	36.91	-1.3701E-02	154.6	137.7	161.7	139.0	UL-RL	2.4306E+04	-10.60	46.83
1.000	1.000	184.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	37.66	-1.3164E-02	156.4	139.5	163.8	140.9	UL-RL	2.4306E+04	-10.80	48.82
1.000	1.000	188.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	38.41	-1.2635E-02	158.2	141.2	165.9	142.7	UL-RL	2.4306E+04	-11.00	50.81
1.000	1.000	192.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	39.16	-1.2116E-02	160.0	143.0	168.0	144.5	UL-RL	2.4306E+04	-11.20	52.80
1.000	1.000	195.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	39.91	-1.1606E-02	161.8	144.8	170.1	146.3	UL-RL	2.4306E+04	-11.40	54.78
1.000	1.000	199.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	40.65	-1.1106E-02	163.6	146.5	172.2	148.2	UL-RL	2.4306E+04	-11.60	56.77
1.000	1.000	203.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	41.40	-1.0615E-02	165.4	148.2	174.2	150.0	UL-RL	2.4306E+04	-11.80	58.76
1.000	1.000	207.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.15	-1.0135E-02	167.3	150.0	176.3	151.8	UL-RL	2.4306E+04	-12.00	60.75
1.000	1.000	210.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	40.08	-9.6650E-03	169.2	137.7	178.5	138.3	UL-RL	8.6183E+04	-12.20	62.73
1.000	1.000	200.4	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	40.87	-9.2058E-03	171.3	139.6	180.8	140.3	UL-RL	8.6183E+04	-12.40	64.72
1.000	1.000	204.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	41.65	-8.7576E-03	173.4	141.5	183.2	142.3	UL-RL	8.6183E+04	-12.60	66.71
1.000	1.000	208.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	42.43	-8.3204E-03	175.5	143.5	185.5	144.4	UL-RL	8.6183E+04	-12.80	68.70
1.000	1.000	212.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	43.22	-7.8946E-03	177.6	145.4	187.9	146.4	UL-RL	8.6183E+04	-13.00	70.68
1.000	1.000	216.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	44.00	-7.4804E-03	179.7	147.3	190.2	148.4	UL-RL	8.6183E+04	-13.20	72.67
1.000	1.000	220.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	44.78	-7.0778E-03	181.9	149.3	192.5	150.4	UL-RL	8.6183E+04	-13.40	74.66
1.000	1.000	223.9	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	45.56	-6.6869E-03	184.0	151.2	194.9	152.4	UL-RL	8.6183E+04	-13.60	76.64
1.000	1.000	227.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	46.35	-6.3079E-03	186.1	153.1	197.2	154.4	UL-RL	8.6183E+04	-13.80	78.63
1.000	1.000	231.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	47.13	-5.9407E-03	188.2	155.0	199.5	156.4	UL-RL	8.6183E+04	-14.00	80.62
1.000	1.000	235.6	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	31.78	-5.5855E-03	190.5	76.29	202.0	99.34	UL-RL	1.1296E+05	-14.20	82.61
1.000	1.000	158.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	32.55	-5.2423E-03	193.0	78.17	204.7	100.5	UL-RL	1.1296E+05	-14.40	84.59
1.000	1.000	162.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.33	-4.9109E-03	195.5	80.04	207.4	101.7	UL-RL	1.1296E+05	-14.60	86.58
1.000	1.000	166.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	34.10	-4.5913E-03	198.0	81.92	210.1	102.9	UL-RL	1.1296E+05	-14.80	88.57
1.000	1.000	170.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	34.87	-4.2834E-03	200.5	83.80	212.8	104.1	UL-RL	1.1296E+05	-15.00	90.56
1.000	1.000	174.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	35.64	-3.9869E-03	203.0	85.67	215.5	105.4	UL-RL	1.1296E+05	-15.20	92.54
1.000	1.000	178.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	36.42	-3.7016E-03	205.5	87.55	218.2	106.6	UL-RL	1.1296E+05	-15.40	94.53
1.000	1.000	182.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	37.19	-3.4273E-03	208.1	89.43	220.9	107.8	UL-RL	1.1296E+05	-15.60	96.52
1.000	1.000	185.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	37.96	-3.1636E-03	210.6	91.30	223.6	109.0	UL-RL	1.1296E+05	-15.80	98.50
1.000	1.000	189.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	38.74	-2.9102E-03	213.1	93.18	226.3	110.2	UL-RL	1.1296E+05	-16.00	100.5
1.000	1.000	193.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	39.51	-2.6668E-03	215.6	95.06	229.0	111.4	UL-RL	1.1296E+05	-16.20	102.5
1.000	1.000	197.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.28	-2.4329E-03	218.1	96.94	231.7	112.6	UL-RL	1.1296E+05	-16.40	104.5
1.000	1.000	201.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	41.06	-2.2082E-03	220.6	98.82	234.4	113.8	UL-RL	1.1296E+05	-16.60	106.5
1.000	1.000	205.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	41.81	-1.9922E-03	223.1	100.6	236.8	115.0	UL-RL	1.1296E+05	-16.80	108.4
1.000	1.000	209.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	42.56	-1.7844E-03	225.7	102.4	239.2	116.2	UL-RL	1.1296E+05	-17.00	110.4
1.000	1.000	212.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	43.31	-1.5844E-03	228.2	104.1	241.7	117.4	UL-RL	1.1296E+05	-17.20	112.4
1.000	1.000	216.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	44.06	-1.3918E-03	230.7	105.9	244.1	118.6	UL-RL	1.1296E+05	-17.40	114.4
1.000	1.000	220.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	44.82	-1.2060E-03	233.2	107.7	246.6	119.8	UL-RL	1.1296E+05	-17.60	116.4
1.000	1.000	224.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	45.57	-1.0265E-03	235.7	109.5	249.0	121.0	UL-RL	1.1296E+05	-17.80	118.4
1.000	1.000	227.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	46.32	-8.5288E-04	238.2	111.3	251.5	122.3	UL-RL	1.1296E+05	-18.00	120.4
1.000	1.000	231.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	47.08	-6.8463E-04	240.7	113.0	253.9	123.5	UL-RL	1.1296E+05	-18.20	122.4
1.000	1.000	235.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	48.51	-5.2123E-04	243.2	118.2	256.3	124.7	UL-RL	1.1296E+05	-18.40	124.3
1.000	1.000	242.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	50.26	-3.6220E-04	245.8	125.0	258.8	126.4	UL-RL	1.1296E+05	-18.60	126.3
1.000	1.000	251.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	51.33	-2.0704E-04	248.3	128.3	261.2	129.7	UL-RL	1.1296E+05	-18.80	128.3
1.000	1.000	256.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	52.38	-5.5278E-05	250.8	131.6	263.7	132.9	UL-RL	1.1296E+05	-19.00	130.3
1.000	1.000	261.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	53.43	9.3554E-05	253.3	134.8	266.1	136.1	UL-RL	1.1296E+05	-19.20	132.3
1.000	1.000	267.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	55.03	2.3990E-04	255.8	140.9	268.6	142.1	UL-RL	1.1296E+05	-19.40	134.3
1.000	1.000	275.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	56.68	3.8420E-04	258.3	147.1	271.0	148.3	UL-RL	1.1296E+05	-19.60	136.3
1.000	1.000	283.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	58.32	5.2684E-04	260.8	153.3	273.5	154.5	UL-RL	1.1296E+05	-19.80	138.3
1.000	1.000	291.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	59.95	6.6819E-04	263.3	159.5	275.9	160.7	UL-RL	1.1296E+05	-20.00	140.2
1.000	1.000	299.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	61.58	8.0858E-04	265.9	165.7	278.4	166.8	UL-RL	1.1296E+05	-20.20	142.2
1.000	1.000	307.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	63.20	9.4830E-04	268.4	171.8	280.8	172.9	UL-RL	1.1296E+05	-20.40	144.2
1.000	1.000	316.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	64.82	1.0876E-03	270.9	177.9	283.3	178.9	UL-RL	1.1296E+05	-20.60	146.2
1.000	1.000	324.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	66.44	1.2266E-03	273.4	184.0	285.7	185.0	UL-RL	1.1296E+05	-20.80	148.2
1.000	1.000	332.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	68.08	1.3655E-03	275.9	190.2	288.2	191.2	UL-RL	1.1296E+05	-21.00	150.2
1.000	1.000	340.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	34.89	1.5043E-03	278.4	196.7	290.6	197.6	UL-RL	1.1296E+05	-21.20	152.2
1.000	1.000	348.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						


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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

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O_R :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT    TIME    IS        3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	0.7856	3.4628E-02	0.000	3.928	0.000	6.560	UL-RL 2.3432E+04		-4.000	0.000	
1.000	1.000	3.928	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.225	3.3948E-02	3.800	11.12	3.800	11.60	UL-RL 2.3432E+04		-4.200	0.000	
1.000	1.000	11.12	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	3.664	3.3268E-02	7.600	18.32	7.600	18.80	UL-RL 2.3432E+04		-4.400	0.000	
1.000	1.000	18.32	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	5.103	3.2590E-02	11.40	25.51	11.40	26.00	UL-RL 2.3432E+04		-4.600	0.000	
1.000	1.000	25.51	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	6.542	3.1912E-02	15.20	32.71	15.20	33.19	UL-RL 2.3432E+04		-4.800	0.000	
1.000	1.000	32.71	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	7.981	3.1236E-02	19.00	39.90	19.00	40.39	UL-RL 2.3432E+04		-5.000	0.000	
1.000	1.000	39.90	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	9.420	3.0561E-02	22.80	47.10	22.80	47.59	UL-RL 2.3432E+04		-5.200	0.000	
1.000	1.000	47.10	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	10.86	2.9887E-02	26.60	54.29	26.60	54.78	UL-RL 2.3432E+04		-5.400	0.000	
1.000	1.000	54.29	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	12.30	2.9215E-02	30.40	61.49	30.40	61.98	UL-RL 2.3432E+04	-5.600	0.000
1.000	1.000	61.49	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	13.74	2.8546E-02	34.20	68.69	34.20	69.18	UL-RL 2.3432E+04	-5.800	0.000
1.000	1.000	68.69	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.18	2.7878E-02	38.00	75.88	38.00	76.38	UL-RL 2.3432E+04	-6.000	0.000
1.000	1.000	75.88	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.40	2.7212E-02	40.59	80.78	40.59	81.28	UL-RL 2.3432E+04	-6.200	1.211
1.000	1.000	81.99	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	17.48	2.6549E-02	42.38	84.17	42.38	84.67	UL-RL 2.3432E+04	-6.400	3.223
1.000	1.000	87.39	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	18.56	2.5889E-02	44.16	87.55	44.16	88.05	UL-RL 2.3432E+04	-6.600	5.236
1.000	1.000	92.78	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	19.64	2.5232E-02	45.95	90.93	45.95	91.44	UL-RL 2.3432E+04	-6.800	7.249
1.000	1.000	98.18	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	20.72	2.4579E-02	47.74	94.31	47.74	94.82	UL-RL 2.3432E+04	-7.000	9.261
1.000	1.000	103.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	21.79	2.3929E-02	49.53	97.70	49.53	98.21	UL-RL 2.3432E+04	-7.200	11.27
1.000	1.000	109.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.87	2.3283E-02	51.31	101.1	51.31	101.6	UL-RL 2.3432E+04	-7.400	13.29
1.000	1.000	114.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	23.95	2.2641E-02	53.10	104.5	53.10	105.0	UL-RL 2.3432E+04	-7.600	15.30
1.000	1.000	119.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	25.03	2.2003E-02	54.89	107.8	54.89	108.4	UL-RL 2.3432E+04	-7.800	17.31
1.000	1.000	125.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	26.11	2.1370E-02	56.68	111.2	56.68	111.7	UL-RL 2.3432E+04	-8.000	19.32
1.000	1.000	130.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	27.19	2.0743E-02	58.46	114.6	58.46	115.1	UL-RL 2.3432E+04	-8.200	21.34
1.000	1.000	136.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	28.27	2.0120E-02	60.25	118.0	60.25	118.5	UL-RL 2.3432E+04	-8.400	23.35
1.000	1.000	141.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	29.35	1.9503E-02	62.04	121.4	62.04	121.9	UL-RL 2.3432E+04	-8.600	25.36
1.000	1.000	146.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	30.43	1.8892E-02	63.82	124.8	63.82	125.3	UL-RL 2.3432E+04	-8.800	27.38
1.000	1.000	152.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	31.51	1.8287E-02	65.61	128.2	65.61	128.7	UL-RL 2.3432E+04	-9.000	29.39
1.000	1.000	157.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	32.59	1.7688E-02	67.40	131.5	67.40	132.1	UL-RL 2.3432E+04	-9.200	31.40
1.000	1.000	162.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	33.67	1.7096E-02	69.19	134.9	69.19	135.4	UL-RL 2.3432E+04	-9.400	33.41
1.000	1.000	168.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	34.75	1.6511E-02	70.97	138.3	70.97	138.8	UL-RL 2.3432E+04	-9.600	35.43
1.000	1.000	173.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	35.83	1.5934E-02	72.76	141.7	72.76	142.2	UL-RL 2.3432E+04	-9.800	37.44
1.000	1.000	179.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	36.91	1.5364E-02	74.55	145.1	74.55	145.6	UL-RL 2.3432E+04	-10.00	39.45
1.000	1.000	184.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	37.99	1.4801E-02	76.34	148.5	76.34	149.0	UL-RL 2.3432E+04	-10.20	41.46
1.000	1.000	189.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	39.07	1.4247E-02	78.12	151.9	78.12	152.4	UL-RL 2.3432E+04	-10.40	43.48
1.000	1.000	195.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	39.46	1.3701E-02	79.91	151.8	79.91	152.3	UL-RL 2.3432E+04	-10.60	45.49
1.000	1.000	197.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	39.19	1.3164E-02	81.70	148.4	81.70	148.9	UL-RL 2.3432E+04	-10.80	47.50
1.000	1.000	195.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	38.93	1.2635E-02	83.48	145.2	83.48	145.7	UL-RL 2.3432E+04	-11.00	49.52
1.000	1.000	194.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	38.69	1.2116E-02	85.27	141.9	85.27	142.4	UL-RL 2.3432E+04	-11.20	51.53
1.000	1.000	193.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	38.47	1.1606E-02	87.06	138.8	87.06	139.3	UL-RL 2.3432E+04	-11.40	53.54
1.000	1.000	192.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	38.25	1.1106E-02	88.85	135.7	88.85	136.2	UL-RL 2.3432E+04	-11.60	55.55
1.000	1.000	191.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	38.06	1.0615E-02	90.63	132.7	90.63	133.2	UL-RL 2.3432E+04	-11.80	57.57	
1.000	1.000	190.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	37.88	1.0135E-02	92.42	129.8	92.42	130.3	UL-RL 2.3432E+04	-12.00	59.58	
1.000	1.000	189.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	55.53	9.6650E-03	94.33	216.0	94.33	217.6	UL-RL 7.7899E+04	-12.20	61.59	
1.000	1.000	277.6	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	56.79	9.2058E-03	96.42	220.4	96.42	221.9	UL-RL 7.7899E+04	-12.40	63.60	
1.000	1.000	284.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	58.06	8.7576E-03	98.50	224.7	98.50	226.2	UL-RL 7.7899E+04	-12.60	65.62	
1.000	1.000	290.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	59.33	8.3204E-03	100.6	229.0	100.6	230.5	UL-RL 7.7899E+04	-12.80	67.63	
1.000	1.000	296.6	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	60.60	7.8946E-03	102.7	233.3	102.7	234.8	UL-RL 7.7899E+04	-13.00	69.64	
1.000	1.000	303.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	61.86	7.4804E-03	104.8	237.7	104.8	239.1	UL-RL 7.7899E+04	-13.20	71.65	
1.000	1.000	309.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	62.85	7.0778E-03	106.9	240.6	106.9	242.0	UL-RL 7.7899E+04	-13.40	73.67	
1.000	1.000	314.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	61.42	6.6869E-03	108.9	231.4	108.9	232.9	UL-RL 7.7899E+04	-13.60	75.68	
1.000	1.000	307.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	60.06	6.3079E-03	111.0	222.6	111.0	224.0	UL-RL 7.7899E+04	-13.80	77.69	
1.000	1.000	300.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	58.75	5.9407E-03	113.1	214.1	113.1	215.4	UL-RL 7.7899E+04	-14.00	79.71	
1.000	1.000	293.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	66.48	5.5855E-03	115.4	250.7	115.4	252.5	UL-RL 1.0210E+05	-14.20	81.72	
1.000	1.000	332.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	64.79	5.2423E-03	117.8	240.2	117.8	242.0	UL-RL 1.0210E+05	-14.40	83.73	
1.000	1.000	323.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	63.18	4.9109E-03	120.3	230.1	120.3	231.9	UL-RL 1.0210E+05	-14.60	85.74	
1.000	1.000	315.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	61.64	4.5913E-03	122.8	220.5	122.8	222.2	UL-RL 1.0210E+05	-14.80	87.76	
1.000	1.000	308.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	60.19	4.2834E-03	125.3	211.2	125.3	212.9	UL-RL 1.0210E+05	-15.00	89.77	
1.000	1.000	300.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	58.81	3.9869E-03	127.8	202.3	127.8	204.0	UL-RL 1.0210E+05	-15.20	91.78	
1.000	1.000	294.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	57.51	3.7016E-03	130.3	193.8	130.3	195.5	UL-RL 1.0210E+05	-15.40	93.79	
1.000	1.000	287.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	56.29	3.4273E-03	132.8	185.6	132.8	187.3	UL-RL 1.0210E+05	-15.60	95.81	
1.000	1.000	281.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	55.14	3.1636E-03	135.3	177.9	135.3	179.5	UL-RL 1.0210E+05	-15.80	97.82	
1.000	1.000	275.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	54.05	2.9102E-03	137.7	170.4	137.7	172.1	UL-RL 1.0210E+05	-16.00	99.83	
1.000	1.000	270.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	53.04	2.6668E-03	140.2	163.3	140.2	165.0	UL-RL 1.0210E+05	-16.20	101.8	
1.000	1.000	265.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	52.09	2.4329E-03	142.7	156.6	142.7	158.2	UL-RL 1.0210E+05	-16.40	103.9	
1.000	1.000	260.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	51.20	2.2082E-03	145.2	150.1	145.2	151.8	UL-RL 1.0210E+05	-16.60	105.9	
1.000	1.000	256.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	50.37	1.9922E-03	147.7	144.0	147.7	145.6	UL-RL 1.0210E+05	-16.80	107.9	
1.000	1.000	251.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	49.60	1.7844E-03	150.2	138.1	150.2	139.8	UL-RL 1.0210E+05	-17.00	109.9	
1.000	1.000	248.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	48.88	1.5844E-03	152.7	132.5	152.7	134.1	UL-RL 1.0210E+05	-17.20	111.9	
1.000	1.000	244.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	48.21	1.3918E-03	155.2	127.1	155.2	128.8	UL-RL 1.0210E+05	-17.40	113.9	
1.000	1.000	241.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	47.59	1.2060E-03	157.6	122.0	157.6	123.7	UL-RL 1.0210E+05	-17.60	115.9	
1.000	1.000	237.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	47.01	1.0265E-03	160.1	117.1	160.1	118.8	UL-RL 1.0210E+05	-17.80	117.9	

1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	46.47	8.5288E-04	162.6	112.4	162.6	114.0	UL-RL 1.0210E+05	-18.00	120.0
1.000	1.000	232.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	45.96	6.8463E-04	165.1	107.8	165.1	109.5	UL-RL 1.0210E+05	-18.20	122.0
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	45.08	5.2123E-04	167.6	101.4	167.6	106.2	UL-RL 1.0210E+05	-18.40	124.0
1.000	1.000	225.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	43.92	3.6220E-04	170.1	93.60	170.1	103.8	UL-RL 1.0210E+05	-18.60	126.0
1.000	1.000	219.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.81	2.0704E-04	172.6	86.04	172.6	101.4	UL-RL 1.0210E+05	-18.80	128.0
1.000	1.000	214.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	41.75	5.5278E-05	175.1	78.73	175.1	99.15	UL-RL 1.0210E+05	-19.00	130.0
1.000	1.000	208.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	40.73	-9.3554E-05	177.5	71.61	177.5	96.91	UL-RL 1.0210E+05	-19.20	132.0
1.000	1.000	203.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	38.72	-2.3990E-04	180.0	59.55	180.0	97.28	UL-RL 1.0210E+05	-19.40	134.0
1.000	1.000	193.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	36.63	-3.8420E-04	182.5	47.09	182.5	97.95	UL-RL 1.0210E+05	-19.60	136.1
1.000	1.000	183.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	34.57	-5.2684E-04	185.0	34.79	185.0	98.62	UL-RL 1.0210E+05	-19.80	138.1
1.000	1.000	172.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	32.54	-6.6819E-04	187.5	22.59	187.5	99.31	UL-RL 1.0210E+05	-20.00	140.1
1.000	1.000	162.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	32.50	-8.0858E-04	190.0	20.39	190.0	100.0	UL-RL 1.0210E+05	-20.20	142.1
1.000	1.000	162.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	33.08	-9.4830E-04	192.5	21.29	192.5	100.7	UL-RL 1.0210E+05	-20.40	144.1
1.000	1.000	165.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	33.66	-1.0876E-03	195.0	22.18	195.0	101.4	UL-RL 1.0210E+05	-20.60	146.1
1.000	1.000	168.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	34.24	-1.2266E-03	197.4	23.08	197.4	102.1	UL-RL 1.0210E+05	-20.80	148.1
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	34.82	-1.3655E-03	199.9	23.97	199.9	102.8	UL-RL 1.0210E+05	-21.00	150.1
1.000	1.000	174.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	17.70	-1.5043E-03	202.4	24.87	202.4	103.7	UL-RL 1.0210E+05	-21.20	152.2
1.000	1.000	177.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-6.00293E-09	6.00293E-09	-5.96124E-10	-7.81363E-10
2	0.32330	-0.32330	1.66397E-09	6.46591E-02
3	0.91290	-0.91290	-6.46591E-02	0.24724
4	1.7686	-1.7686	-0.24724	0.60096
5	2.8904	-2.8904	-0.60096	1.1790
6	4.2783	-4.2783	-1.1790	2.0347
7	5.9323	-5.9323	-2.0347	3.2212
8	7.8526	-7.8526	-3.2212	4.7917
9	10.039	-10.039	-4.7917	6.7995
10	12.492	-12.492	-6.7995	9.2979
11	15.211	-15.211	-9.2979	12.340
12	18.196	-18.196	-12.340	15.979
13	21.448	-21.448	-15.979	20.269
14	24.966	-24.966	-20.269	25.262
15	28.751	-28.751	-25.262	31.012

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
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|                                                                                               Exe Time :28 January 2022   15:35:00          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP   91
C U R R E N T   T I M E   I S   3.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	32.802	-32.802	-31.012	37.573
2	37.120	-37.120	-37.573	44.997
3	41.704	-41.704	-44.997	53.337
4	46.554	-46.554	-53.337	62.648
5	51.671	-51.671	-62.648	72.982
6	64.004	-64.004	-72.982	85.783
7	75.577	-75.577	-85.783	100.90
8	86.391	-86.391	-100.90	118.18
9	96.446	-96.446	-118.18	137.47
10	105.74	-105.74	-137.47	158.61
11	114.28	-114.28	-158.61	181.47
12	122.05	-122.05	-181.47	205.88
13	129.07	-129.07	-205.88	231.69
14	135.33	-135.33	-231.69	258.76
15	140.83	-140.83	-258.76	286.93
16	145.60	-145.60	-286.93	316.05
17	149.87	-149.87	-316.05	346.02
18	153.79	-153.79	-346.02	376.78
19	157.36	-157.36	-376.78	408.25
20	160.58	-160.58	-408.25	440.37
21	163.45	-163.45	-440.37	473.06
22	165.97	-165.97	-473.06	506.25
23	168.13	-168.13	-506.25	539.88
24	169.94	-169.94	-539.88	573.87
25	171.40	-171.40	-573.87	608.15
26	172.50	-172.50	-608.15	642.65
27	173.26	-173.26	-642.65	677.30
28	173.65	-173.65	-677.30	712.03
29	173.70	-173.70	-712.03	746.77
30	173.39	-173.39	-746.77	781.45
31	172.76	-172.76	-781.45	816.00
32	171.81	-171.81	-816.00	850.36
33	170.53	-170.53	-850.36	884.47
34	168.93	-168.93	-884.47	918.25
35	167.00	-167.00	-918.25	951.65
36	164.75	-164.75	-951.65	984.60
37	162.17	-162.17	-984.60	1017.0
38	159.26	-159.26	-1017.0	1048.9
39	156.71	-156.71	-1048.9	1080.2
40	155.19	-155.19	-1080.2	1111.3
41	154.66	-154.66	-1111.3	1142.2
42	155.13	-155.13	-1142.2	1173.2
43	156.57	-156.57	-1173.2	1204.5
44	158.97	-158.97	-1204.5	1236.3
45	162.31	-162.31	-1236.3	1268.8
46	166.58	-166.58	-1268.8	1302.1
47	151.14	-151.14	-1302.1	1332.3
48	135.21	-135.21	-1332.3	1359.4
49	118.80	-118.80	-1359.4	1383.1
50	101.91	-101.91	-1383.1	1403.5
51	84.527	-84.527	-1403.5	1420.4
52	66.663	-66.663	-1420.4	1433.8
53	48.593	-48.593	-1433.8	1443.5
54	32.733	-32.733	-1443.5	1450.0
55	19.021	-19.021	-1450.0	1453.8
56	7.3943	-7.3943	-1453.8	1455.3
57	-27.308	27.308	-1455.3	1449.9
58	-59.544	59.544	-1449.9	1437.9
59	-89.395	89.395	-1437.9	1420.1
60	-116.94	116.94	-1420.1	1396.7
61	-142.26	142.26	-1396.7	1368.2
62	-165.43	165.43	-1368.2	1335.1
63	-186.53	186.53	-1335.1	1297.8
64	-205.63	205.63	-1297.8	1256.7
65	-222.80	222.80	-1256.7	1212.1
66	-238.12	238.12	-1212.1	1164.5
67	-251.65	251.65	-1164.5	1114.2
68	-263.46	263.46	-1114.2	1061.5
69	-273.61	273.61	-1061.5	1006.8
70	-282.17	282.17	-1006.8	950.34

71	-289.21	289.21	-950.34	892.50
72	-294.78	294.78	-892.50	833.54
73	-298.92	298.92	-833.54	773.76
74	-301.69	301.69	-773.76	713.42
75	-303.13	303.13	-713.42	652.79
76	-303.27	303.27	-652.79	592.14
77	-302.15	302.15	-592.14	531.71
78	-298.72	298.72	-531.71	471.97
79	-292.37	292.37	-471.97	413.49
80	-283.85	283.85	-413.49	356.72
81	-273.22	273.22	-356.72	302.08
82	-260.52	260.52	-302.08	249.97
83	-244.22	244.22	-249.97	201.13
84	-224.17	224.17	-201.13	156.29
85	-200.43	200.43	-156.29	116.21
86	-173.01	173.01	-116.21	81.606
87	-143.93	143.93	-81.606	52.818
88	-113.81	113.81	-52.818	30.056
89	-82.647	82.647	-30.056	13.526
90	-50.446	50.446	-13.526	3.4370
91	-17.186	17.186	-3.4370	1.04803E-10

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
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|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:00          |
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F I N A L I N C R E M E N T A L A N A L Y S I S

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	6
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	2

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME ... 0.07 [sec]

DATABASE CREATION CPU TIME..... 0.19 [sec]

8.9. Design Assumption : SISMICA STR - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SISMICA STR
* Time:venerdi 28 gennaio 2022 15:35:01
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_36 0 -21.2 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_36 -21.2 0 1 0
SOIL 0_R LeftWall_36 -21.2 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Rilevato_76031_14_L_0)
*
LDATA Rilevato_76031_14_L_0 15 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 35 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 40000 40000
ENDL
*
* Soil Profile (Ala_76024_15_L_0)
*
LDATA Ala_76024_15_L_0 -4 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 2 25 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 30000 90000
ENDL
*
* Soil Profile (Salt_175_16_L_0)
*
LDATA Salt_175_16_L_0 -12.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 20.5 10.5 10
PERMEABILITY 1E-05
RESISTANCE 10 27 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 1.03E+05 3.09E+05
ENDL
*
* Soil Profile (Pa_37608_76032_L_0)
*
LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 22.5 12.5 10
PERMEABILITY 1E-05
RESISTANCE 50 27 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 1.35E+05 4.05E+05
ENDL

* 5: Defining structural materials
* Steel material: 114 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_114 2.06E+08
* Concrete material: 112 Name=C32/40 E=33345800 kPa
MATERIAL C3240_112 3.3346E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
** rev 2021 and later
BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0

* 6.2: Supports
```

* 6.3: Strips

STRIP LeftWall_36 1 1 11.4 9.9 4.7 40 45

* 7: Defining Steps

STEP Finale_40504

CHANGE Rilevato_76031_14_L_0 U-FRICT=35 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-FRICT=35 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KA=0.266 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KP=9.735 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KA=0.235 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KP=5.879 LeftWall_36
CHANGE Ala_76024_15_L_0 U-FRICT=25 LeftWall_36
CHANGE Ala_76024_15_L_0 D-FRICT=25 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KA=0.689 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KP=4.351 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KA=0.322 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KP=2.38 LeftWall_36
CHANGE Salt_175_16_L_0 U-FRICT=27 LeftWall_36
CHANGE Salt_175_16_L_0 D-FRICT=27 LeftWall_36
CHANGE Salt_175_16_L_0 U-KA=0.557 LeftWall_36
CHANGE Salt_175_16_L_0 U-KP=4.793 LeftWall_36
CHANGE Salt_175_16_L_0 D-KA=0.298 LeftWall_36
CHANGE Salt_175_16_L_0 D-KP=2.641 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-FRICT=27 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-FRICT=27 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KA=0.496 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KP=4.484 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KA=0.298 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KP=2.687 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 U-COHE=2 LeftWall_36
CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 D-COHE=2 LeftWall_36
CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 U-COHE=10 LeftWall_36
CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 D-COHE=10 LeftWall_36
CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-COHE=50 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-COHE=50 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ADD WallElement_11138 WallElement_New_75260
ENDSTEP

STEP StageA_205794

SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

STEP Sisma_79386

SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
CHANGE Rilevato_76031_14_L_0 U-KAED=0.34008 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KAEW=0.4298 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KPED=10.105 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KPEW=9.9365 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KAED=0.27269 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KAEW=0.33966 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KPED=5.3275 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KPEW=4.9256 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KAED=0.94201 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KAEW=1.0432 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KPED=4.4659 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KPEW=4.3209 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KAED=0.35689 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KAEW=0.42291 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KPED=2.0188 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KPEW=1.6514 LeftWall_36
CHANGE Salt_175_16_L_0 U-KAED=0.91802 LeftWall_36
CHANGE Salt_175_16_L_0 U-KAEW=1.0098 LeftWall_36
CHANGE Salt_175_16_L_0 U-KPED=4.8916 LeftWall_36
CHANGE Salt_175_16_L_0 U-KPEW=4.7361 LeftWall_36
CHANGE Salt_175_16_L_0 D-KAED=0.33201 LeftWall_36
CHANGE Salt_175_16_L_0 D-KAEW=0.38559 LeftWall_36
CHANGE Salt_175_16_L_0 D-KPED=2.2609 LeftWall_36
CHANGE Salt_175_16_L_0 D-KPEW=1.9528 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KAED=0.74797 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KAEW=0.99417 LeftWall_36

```

CHANGE Pa_37608_76032_L_0 U-KPED=4.5337 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KPEW=4.3804 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KAED=0.33201 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KAEW=0.37602 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KPED=2.3068 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KPEW=2.0552 LeftWall_36
EQK USER 0.0864 0.0432 -0.0432 0 0.5 -9.2645 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_36
*   min elevation = -4
*   max elevation = 0
*   average gamma = 19
*   kh = 0,0864
*   deltaQ = 9,8496
DLOAD step LeftWall_36 -4 2.4624 0 2.4624
* Include pressure contribution from wall: LeftWall_36
* Include wall contribution
DLOAD step LeftWall_36 -3 2.16 0 2.16
DLOAD step LeftWall_36 -4 2.2453 -3 2.2453
ENDSTEP

```

8.10. Design Assumption : SISMICA STR - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS(TM)   NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                     |
|                                                                                                     |
|                                                                                                     |
|          ParatiePlus                                                                                   |
|          Exe Time :28 January 2022  15:35:01                                                         |
+-----+

*****
*                                                                                                     *
*   PARATIE PLUS Non-Linear Spring Engine                                                             *
*                                                                                                     *
*   AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                                         *
*   FOR FLEXIBLE EARTH-RETAINING STRUCTURES                                                         *
*                                                                                                     *
*   Written by CEAS s.r.l. (ITALY)                                                                    *
*   with the scientific supervision of                                                                *
*   Roberto Nova - full professor SOIL MECHANICS                                                    *
*   at Politecnico di Milano (ITALY)                                                                *
*                                                                                                     *
*****
*   RELEASE 2022.0.0 *Build date:Sep 13, 2021*                                                       *
*                                                                                                     *
*                                                                                                     *
*   CEAS S.R.L VIALE GIUSTINIANO 10                                                                  *
*   20129 M I L A N O (ITALIA)                                                                       *
*   TEL. +39 02 2020221                                                                               *
*                                                                                                     *
*   email   bruno.becci@ceas.it                                                                     *
*   Web Page www.ceas.it   www.paratieplus.com                                                       *
*****

JOB : ParatiePlus
STARTING
ACCEPTED <<FILE,GENW >>
ACCEPTED <<FILE,PLOTTER,BINARY >>
ACCEPTED <<SOLVE TOTAL_STRESS >>
ACCEPTED <<PARAM ITEMAX 40 >>
ACCEPTED <<CONTROL CONTACT LAGRANGE >>
ACCEPTED <<CONTROL HINGES 0 0.0001 0.001 >>

*****
*                                                                                                     *
*   WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED                                           *
*   BY THE PROGRAM.                                                                                   *
*                                                                                                     *
*****

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                           |
|                                                                                               Exe Time :28 January 2022   15:35:01                                                                           |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 107
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 214
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 145
NO. OF LONG NAMES (LASTNAME) ..... 17
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
MAX INELASTIC DISPL. TABLE LENGTH..... 0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

```

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F

```

RELEVANT ITEMS UNITS

```

STRESSES                kPa
Y-DISPLACEMENTS        m
ROTATIONS                RADIANS
BEAM AND SLAB MOMENTS   kN*m/m
BEAM SHEAR FORCES       kN/m
ANCHOR FORCES           kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS    kN/m
Y-REACTIONS             kN/m
X-MOMENT REACTIONS      kN*m/m
ETC.

```

P R E P R O C E S S O R D A T A

N O . O F C O M M A N D S 145

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control contact lagrange
6 : option control hinges 0 0.0001 0.001
7 : WALL LeftWall_36 0 -21.2 0 1
8 : SOIL 0_L LeftWall_36 -21.2 0 1 0
9 : SOIL 0_R LeftWall_36 -21.2 0 2 180
10 : LDATA Rilevato_76031_14_L_0 15 LeftWall_36
11 : ATREST 0.5 0.5 1
12 : WEIGHT 19 9 10
13 : PERMEABILITY 1E-05
14 : RESISTANCE 0 35 0 0 0
15 : TZDATA LINEAR 0 0 0 0.5 0
16 : KSCALE 0 0
17 : YOUNG 40000 40000
18 : ENDL
19 : LDATA Ala_76024_15_L_0 -4 LeftWall_36
20 : ATREST 0.5 0.5 1
21 : WEIGHT 19 9 10
22 : PERMEABILITY 1E-05
23 : RESISTANCE 2 25 0 0 0
24 : TZDATA LINEAR 0 0 0 0.5 0
25 : KSCALE 0 0
26 : YOUNG 30000 90000
27 : ENDL
28 : LDATA Salt_175_16_L_0 -12.12 LeftWall_36
29 : ATREST 0.5 0.5 1
30 : WEIGHT 20.5 10.5 10
31 : PERMEABILITY 1E-05
32 : RESISTANCE 10 27 0 0 0
33 : TZDATA LINEAR 10000 0 25 0.5 0
34 : KSCALE 0 0
35 : YOUNG 1.03E+05 3.09E+05
36 : ENDL
37 : LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
38 : ATREST 0.5 0.5 1
39 : WEIGHT 22.5 12.5 10
40 : PERMEABILITY 1E-05
41 : RESISTANCE 50 27 0 0 0
42 : TZDATA LINEAR 0 0 0 0.5 0
43 : KSCALE 0 0
44 : YOUNG 1.35E+05 4.05E+05
45 : ENDL
46 : MATERIAL Fe360_114 2.06E+08
47 : MATERIAL C3240_112 3.3346E+07
48 : BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
49 : BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0
50 : STRIP LeftWall_36 1 1 11.4 9.9 4.7 40 45
51 : STEP Finale_40504
52 : CHANGE Rilevato_76031_14_L_0 U-FRICT=35 LeftWall_36
53 : CHANGE Rilevato_76031_14_L_0 D-FRICT=35 LeftWall_36
54 : CHANGE Rilevato_76031_14_L_0 U-KA=0.266 LeftWall_36
55 : CHANGE Rilevato_76031_14_L_0 U-KP=9.735 LeftWall_36
56 : CHANGE Rilevato_76031_14_L_0 D-KA=0.235 LeftWall_36
57 : CHANGE Rilevato_76031_14_L_0 D-KP=5.879 LeftWall_36
58 : CHANGE Ala_76024_15_L_0 U-FRICT=25 LeftWall_36
59 : CHANGE Ala_76024_15_L_0 D-FRICT=25 LeftWall_36
60 : CHANGE Ala_76024_15_L_0 U-KA=0.689 LeftWall_36
61 : CHANGE Ala_76024_15_L_0 U-KP=4.351 LeftWall_36
62 : CHANGE Ala_76024_15_L_0 D-KA=0.322 LeftWall_36
63 : CHANGE Ala_76024_15_L_0 D-KP=2.38 LeftWall_36
64 : CHANGE Salt_175_16_L_0 U-FRICT=27 LeftWall_36
65 : CHANGE Salt_175_16_L_0 D-FRICT=27 LeftWall_36
66 : CHANGE Salt_175_16_L_0 U-KA=0.557 LeftWall_36
67 : CHANGE Salt_175_16_L_0 U-KP=4.793 LeftWall_36
68 : CHANGE Salt_175_16_L_0 D-KA=0.298 LeftWall_36
69 : CHANGE Salt_175_16_L_0 D-KP=2.641 LeftWall_36
70 : CHANGE Pa_37608_76032_L_0 U-FRICT=27 LeftWall_36
71 : CHANGE Pa_37608_76032_L_0 D-FRICT=27 LeftWall_36
72 : CHANGE Pa_37608_76032_L_0 U-KA=0.496 LeftWall_36
73 : CHANGE Pa_37608_76032_L_0 U-KP=4.484 LeftWall_36
74 : CHANGE Pa_37608_76032_L_0 D-KA=0.298 LeftWall_36
75 : CHANGE Pa_37608_76032_L_0 D-KP=2.687 LeftWall_36
76 : CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
77 : CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
78 : CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
79 : CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36

```

80 : CHANGE Ala_76024_15_L_0 U-COHE=2 LeftWall_36
81 : CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
82 : CHANGE Ala_76024_15_L_0 D-COHE=2 LeftWall_36
83 : CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
84 : CHANGE Salt_175_16_L_0 U-COHE=10 LeftWall_36
85 : CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
86 : CHANGE Salt_175_16_L_0 D-COHE=10 LeftWall_36
87 : CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
88 : CHANGE Pa_37608_76032_L_0 U-COHE=50 LeftWall_36
89 : CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
90 : CHANGE Pa_37608_76032_L_0 D-COHE=50 LeftWall_36
91 : CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
92 : SETWALL LeftWall_36
93 : GEOM 0 -4
94 : SURCHARGE 0 0 0 0
95 : WATER -5.8866 0.1931 -21.2 0 0
96 : ADD WallElement_11138 WallElement_New_75260
97 : ENDSTEP
98 : STEP StageA_205794
99 : SETWALL LeftWall_36
100 : GEOM 0 -4
101 : SURCHARGE 0 0 0 0
102 : WATER -5.8866 0.1931 -21.2 0 0
103 : ENDSTEP
104 : STEP Sisma_79386
105 : SETWALL LeftWall_36
106 : GEOM 0 -4
107 : SURCHARGE 0 0 0 0
108 : WATER -5.8866 0.1931 -21.2 0 0
109 : CHANGE Rilevato_76031_14_L_0 U-KAED=0.34008 LeftWall_36
110 : CHANGE Rilevato_76031_14_L_0 U-KAEW=0.4298 LeftWall_36
111 : CHANGE Rilevato_76031_14_L_0 U-KPED=10.105 LeftWall_36
112 : CHANGE Rilevato_76031_14_L_0 U-KPEW=9.9365 LeftWall_36
113 : CHANGE Rilevato_76031_14_L_0 D-KAED=0.27269 LeftWall_36
114 : CHANGE Rilevato_76031_14_L_0 D-KAEW=0.33966 LeftWall_36
115 : CHANGE Rilevato_76031_14_L_0 D-KPED=5.3275 LeftWall_36
116 : CHANGE Rilevato_76031_14_L_0 D-KPEW=4.9256 LeftWall_36
117 : CHANGE Ala_76024_15_L_0 U-KAED=0.94201 LeftWall_36
118 : CHANGE Ala_76024_15_L_0 U-KAEW=1.0432 LeftWall_36
119 : CHANGE Ala_76024_15_L_0 U-KPED=4.4659 LeftWall_36
120 : CHANGE Ala_76024_15_L_0 U-KPEW=4.3209 LeftWall_36
121 : CHANGE Ala_76024_15_L_0 D-KAED=0.35689 LeftWall_36
122 : CHANGE Ala_76024_15_L_0 D-KAEW=0.42291 LeftWall_36
123 : CHANGE Ala_76024_15_L_0 D-KPED=2.0188 LeftWall_36
124 : CHANGE Ala_76024_15_L_0 D-KPEW=1.6514 LeftWall_36
125 : CHANGE Salt_175_16_L_0 U-KAED=0.91802 LeftWall_36
126 : CHANGE Salt_175_16_L_0 U-KAEW=1.0098 LeftWall_36
127 : CHANGE Salt_175_16_L_0 U-KPED=4.8916 LeftWall_36
128 : CHANGE Salt_175_16_L_0 U-KPEW=4.7361 LeftWall_36
129 : CHANGE Salt_175_16_L_0 D-KAED=0.33201 LeftWall_36
130 : CHANGE Salt_175_16_L_0 D-KAEW=0.38559 LeftWall_36
131 : CHANGE Salt_175_16_L_0 D-KPED=2.2609 LeftWall_36
132 : CHANGE Salt_175_16_L_0 D-KPEW=1.9528 LeftWall_36
133 : CHANGE Pa_37608_76032_L_0 U-KAED=0.74797 LeftWall_36
134 : CHANGE Pa_37608_76032_L_0 U-KAEW=0.99417 LeftWall_36
135 : CHANGE Pa_37608_76032_L_0 U-KPED=4.5337 LeftWall_36
136 : CHANGE Pa_37608_76032_L_0 U-KPEW=4.3804 LeftWall_36
137 : CHANGE Pa_37608_76032_L_0 D-KAED=0.33201 LeftWall_36
138 : CHANGE Pa_37608_76032_L_0 D-KAEW=0.37602 LeftWall_36
139 : CHANGE Pa_37608_76032_L_0 D-KPED=2.3068 LeftWall_36
140 : CHANGE Pa_37608_76032_L_0 D-KPEW=2.0552 LeftWall_36
141 : EQK USER 0.0864 0.0432 -0.0432 0 0.5 -9.2645 0.5 0 0
142 : DLOAD step LeftWall_36 -4 2.4624 0 2.4624
143 : DLOAD step LeftWall_36 -3 2.16 0 2.16
144 : DLOAD step LeftWall_36 -4 2.2453 -3 2.2453
145 : ENDSTEP

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:35:01                                                                                               |
+-----+

```

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /				
1	0.0000	0.0000	/	2	0.0000	-0.20000	/	3	0.0000	-0.40000	/	4	0.0000	-0.60000	/
5	0.0000	-0.80000	/	6	0.0000	-1.00000	/	7	0.0000	-1.20000	/	8	0.0000	-1.40000	/
9	0.0000	-1.60000	/	10	0.0000	-1.80000	/	11	0.0000	-2.00000	/	12	0.0000	-2.20000	/
13	0.0000	-2.40000	/	14	0.0000	-2.60000	/	15	0.0000	-2.80000	/	16	0.0000	-3.00000	/
17	0.0000	-3.20000	/	18	0.0000	-3.40000	/	19	0.0000	-3.60000	/	20	0.0000	-3.80000	/
21	0.0000	-4.00000	/	22	0.0000	-4.20000	/	23	0.0000	-4.40000	/	24	0.0000	-4.60000	/
25	0.0000	-4.80000	/	26	0.0000	-5.00000	/	27	0.0000	-5.20000	/	28	0.0000	-5.40000	/
29	0.0000	-5.60000	/	30	0.0000	-5.80000	/	31	0.0000	-6.00000	/	32	0.0000	-6.20000	/
33	0.0000	-6.40000	/	34	0.0000	-6.60000	/	35	0.0000	-6.80000	/	36	0.0000	-7.00000	/
37	0.0000	-7.20000	/	38	0.0000	-7.40000	/	39	0.0000	-7.60000	/	40	0.0000	-7.80000	/
41	0.0000	-8.00000	/	42	0.0000	-8.20000	/	43	0.0000	-8.40000	/	44	0.0000	-8.60000	/
45	0.0000	-8.80000	/	46	0.0000	-9.00000	/	47	0.0000	-9.20000	/	48	0.0000	-9.40000	/
49	0.0000	-9.60000	/	50	0.0000	-9.80000	/	51	0.0000	-10.00000	/	52	0.0000	-10.20000	/
53	0.0000	-10.40000	/	54	0.0000	-10.60000	/	55	0.0000	-10.80000	/	56	0.0000	-11.00000	/
57	0.0000	-11.20000	/	58	0.0000	-11.40000	/	59	0.0000	-11.60000	/	60	0.0000	-11.80000	/
61	0.0000	-12.00000	/	62	0.0000	-12.20000	/	63	0.0000	-12.40000	/	64	0.0000	-12.60000	/
65	0.0000	-12.80000	/	66	0.0000	-13.00000	/	67	0.0000	-13.20000	/	68	0.0000	-13.40000	/
69	0.0000	-13.60000	/	70	0.0000	-13.80000	/	71	0.0000	-14.00000	/	72	0.0000	-14.20000	/
73	0.0000	-14.40000	/	74	0.0000	-14.60000	/	75	0.0000	-14.80000	/	76	0.0000	-15.00000	/
77	0.0000	-15.20000	/	78	0.0000	-15.40000	/	79	0.0000	-15.60000	/	80	0.0000	-15.80000	/
81	0.0000	-16.00000	/	82	0.0000	-16.20000	/	83	0.0000	-16.40000	/	84	0.0000	-16.60000	/
85	0.0000	-16.80000	/	86	0.0000	-17.00000	/	87	0.0000	-17.20000	/	88	0.0000	-17.40000	/
89	0.0000	-17.60000	/	90	0.0000	-17.80000	/	91	0.0000	-18.00000	/	92	0.0000	-18.20000	/
93	0.0000	-18.40000	/	94	0.0000	-18.60000	/	95	0.0000	-18.80000	/	96	0.0000	-19.00000	/
97	0.0000	-19.20000	/	98	0.0000	-19.40000	/	99	0.0000	-19.60000	/	100	0.0000	-19.80000	/
101	0.0000	-20.00000	/	102	0.0000	-20.20000	/	103	0.0000	-20.40000	/	104	0.0000	-20.60000	/
105	0.0000	-20.80000	/	106	0.0000	-21.00000	/	107	0.0000	-21.20000	/				

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:01          |
+-----+

```

ELEMENT GROUP NO. 1

```

0_L
 5 107  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  4  0  0  0  0

```

```

.....2D PLASTIC SOIL .....

```

element group behaviour throughout stage analysis

stage status

```

-----
 1 active
 2 active
 3 active

```

material set no. 1

```

prop( 1) angle          0.00000
prop( 2) layer as foreseen 1.00000

```

material set no. 2

```

prop( 1) angle          0.00000
prop( 2) layer as foreseen 2.00000

```

material set no. 3

```

prop( 1) angle          0.00000
prop( 2) layer as foreseen 3.00000

```

material set no. 4

```

prop( 1) angle          0.00000
prop( 2) layer as foreseen 4.00000

```

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000
2	2	1	0.2000	0.000	0.000	0.000	1.000
3	3	1	0.2000	0.000	0.000	0.000	1.000
4	4	1	0.2000	0.000	0.000	0.000	1.000
5	5	1	0.2000	0.000	0.000	0.000	1.000
6	6	1	0.2000	0.000	0.000	0.000	1.000
7	7	1	0.2000	0.000	0.000	0.000	1.000
8	8	1	0.2000	0.000	0.000	0.000	1.000
9	9	1	0.2000	0.000	0.000	0.000	1.000
10	10	1	0.2000	0.000	0.000	0.000	1.000
11	11	1	0.2000	0.000	0.000	0.000	1.000
12	12	1	0.2000	0.000	0.000	0.000	1.000
13	13	1	0.2000	0.000	0.000	0.000	1.000
14	14	1	0.2000	0.000	0.000	0.000	1.000
15	15	1	0.2000	0.000	0.000	0.000	1.000
16	16	1	0.2000	0.000	0.000	0.000	1.000
17	17	1	0.2000	0.000	0.000	0.000	1.000
18	18	1	0.2000	0.000	0.000	0.000	1.000
19	19	1	0.2000	0.000	0.000	0.000	1.000
20	20	1	0.2000	0.000	0.000	0.000	1.000
21	21	2	0.2000	0.000	0.000	0.000	1.000
22	22	2	0.2000	0.000	0.000	0.000	1.000
23	23	2	0.2000	0.000	0.000	0.000	1.000
24	24	2	0.2000	0.000	0.000	0.000	1.000
25	25	2	0.2000	0.000	0.000	0.000	1.000
26	26	2	0.2000	0.000	0.000	0.000	1.000
27	27	2	0.2000	0.000	0.000	0.000	1.000
28	28	2	0.2000	0.000	0.000	0.000	1.000
29	29	2	0.2000	0.000	0.000	0.000	1.000
30	30	2	0.2000	0.000	0.000	0.000	1.000
31	31	2	0.2000	0.000	0.000	0.000	1.000
32	32	2	0.2000	0.000	0.000	0.000	1.000
33	33	2	0.2000	0.000	0.000	0.000	1.000
34	34	2	0.2000	0.000	0.000	0.000	1.000
35	35	2	0.2000	0.000	0.000	0.000	1.000
36	36	2	0.2000	0.000	0.000	0.000	1.000
37	37	2	0.2000	0.000	0.000	0.000	1.000
38	38	2	0.2000	0.000	0.000	0.000	1.000

39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	2	0.2000	0.000	0.000	0.000	1.000
42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	4	0.2000	0.000	0.000	0.000	1.000
73	73	4	0.2000	0.000	0.000	0.000	1.000
74	74	4	0.2000	0.000	0.000	0.000	1.000
75	75	4	0.2000	0.000	0.000	0.000	1.000
76	76	4	0.2000	0.000	0.000	0.000	1.000
77	77	4	0.2000	0.000	0.000	0.000	1.000
78	78	4	0.2000	0.000	0.000	0.000	1.000
79	79	4	0.2000	0.000	0.000	0.000	1.000
80	80	4	0.2000	0.000	0.000	0.000	1.000
81	81	4	0.2000	0.000	0.000	0.000	1.000
82	82	4	0.2000	0.000	0.000	0.000	1.000
83	83	4	0.2000	0.000	0.000	0.000	1.000
84	84	4	0.2000	0.000	0.000	0.000	1.000
85	85	4	0.2000	0.000	0.000	0.000	1.000
86	86	4	0.2000	0.000	0.000	0.000	1.000
87	87	4	0.2000	0.000	0.000	0.000	1.000
88	88	4	0.2000	0.000	0.000	0.000	1.000
89	89	4	0.2000	0.000	0.000	0.000	1.000
90	90	4	0.2000	0.000	0.000	0.000	1.000
91	91	4	0.2000	0.000	0.000	0.000	1.000
92	92	4	0.2000	0.000	0.000	0.000	1.000
93	93	4	0.2000	0.000	0.000	0.000	1.000
94	94	4	0.2000	0.000	0.000	0.000	1.000
95	95	4	0.2000	0.000	0.000	0.000	1.000
96	96	4	0.2000	0.000	0.000	0.000	1.000
97	97	4	0.2000	0.000	0.000	0.000	1.000
98	98	4	0.2000	0.000	0.000	0.000	1.000
99	99	4	0.2000	0.000	0.000	0.000	1.000
100	100	4	0.2000	0.000	0.000	0.000	1.000
101	101	4	0.2000	0.000	0.000	0.000	1.000
102	102	4	0.2000	0.000	0.000	0.000	1.000
103	103	4	0.2000	0.000	0.000	0.000	1.000
104	104	4	0.2000	0.000	0.000	0.000	1.000
105	105	4	0.2000	0.000	0.000	0.000	1.000
106	106	4	0.2000	0.000	0.000	0.000	1.000
107	107	4	0.1000	0.000	0.000	0.000	1.000

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                |
|                ParatiePlus  |
|                Exe Time :28 January 2022  15:35:01  |
+-----+

```

ELEMENT GROUP NO. 2

```

0_R
5 107 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0 0 0

```

```

.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active

```

material set no. 1

```

prop( 1) angle          180.000
prop( 2) layer as foreseen 1.00000

```

material set no. 2

```

prop( 1) angle          180.000
prop( 2) layer as foreseen 2.00000

```

material set no. 3

```

prop( 1) angle          180.000
prop( 2) layer as foreseen 3.00000

```

material set no. 4

```

prop( 1) angle          180.000
prop( 2) layer as foreseen 4.00000

```

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	2.000
2	2	1	0.2000	0.000	0.000	0.000	2.000
3	3	1	0.2000	0.000	0.000	0.000	2.000
4	4	1	0.2000	0.000	0.000	0.000	2.000
5	5	1	0.2000	0.000	0.000	0.000	2.000
6	6	1	0.2000	0.000	0.000	0.000	2.000
7	7	1	0.2000	0.000	0.000	0.000	2.000
8	8	1	0.2000	0.000	0.000	0.000	2.000
9	9	1	0.2000	0.000	0.000	0.000	2.000
10	10	1	0.2000	0.000	0.000	0.000	2.000
11	11	1	0.2000	0.000	0.000	0.000	2.000
12	12	1	0.2000	0.000	0.000	0.000	2.000
13	13	1	0.2000	0.000	0.000	0.000	2.000
14	14	1	0.2000	0.000	0.000	0.000	2.000
15	15	1	0.2000	0.000	0.000	0.000	2.000
16	16	1	0.2000	0.000	0.000	0.000	2.000
17	17	1	0.2000	0.000	0.000	0.000	2.000
18	18	1	0.2000	0.000	0.000	0.000	2.000
19	19	1	0.2000	0.000	0.000	0.000	2.000
20	20	1	0.2000	0.000	0.000	0.000	2.000
21	21	2	0.2000	0.000	0.000	0.000	2.000
22	22	2	0.2000	0.000	0.000	0.000	2.000
23	23	2	0.2000	0.000	0.000	0.000	2.000
24	24	2	0.2000	0.000	0.000	0.000	2.000
25	25	2	0.2000	0.000	0.000	0.000	2.000
26	26	2	0.2000	0.000	0.000	0.000	2.000
27	27	2	0.2000	0.000	0.000	0.000	2.000
28	28	2	0.2000	0.000	0.000	0.000	2.000
29	29	2	0.2000	0.000	0.000	0.000	2.000
30	30	2	0.2000	0.000	0.000	0.000	2.000
31	31	2	0.2000	0.000	0.000	0.000	2.000
32	32	2	0.2000	0.000	0.000	0.000	2.000
33	33	2	0.2000	0.000	0.000	0.000	2.000
34	34	2	0.2000	0.000	0.000	0.000	2.000
35	35	2	0.2000	0.000	0.000	0.000	2.000
36	36	2	0.2000	0.000	0.000	0.000	2.000
37	37	2	0.2000	0.000	0.000	0.000	2.000
38	38	2	0.2000	0.000	0.000	0.000	2.000

39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	2	0.2000	0.000	0.000	0.000	2.000
42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	4	0.2000	0.000	0.000	0.000	2.000
73	73	4	0.2000	0.000	0.000	0.000	2.000
74	74	4	0.2000	0.000	0.000	0.000	2.000
75	75	4	0.2000	0.000	0.000	0.000	2.000
76	76	4	0.2000	0.000	0.000	0.000	2.000
77	77	4	0.2000	0.000	0.000	0.000	2.000
78	78	4	0.2000	0.000	0.000	0.000	2.000
79	79	4	0.2000	0.000	0.000	0.000	2.000
80	80	4	0.2000	0.000	0.000	0.000	2.000
81	81	4	0.2000	0.000	0.000	0.000	2.000
82	82	4	0.2000	0.000	0.000	0.000	2.000
83	83	4	0.2000	0.000	0.000	0.000	2.000
84	84	4	0.2000	0.000	0.000	0.000	2.000
85	85	4	0.2000	0.000	0.000	0.000	2.000
86	86	4	0.2000	0.000	0.000	0.000	2.000
87	87	4	0.2000	0.000	0.000	0.000	2.000
88	88	4	0.2000	0.000	0.000	0.000	2.000
89	89	4	0.2000	0.000	0.000	0.000	2.000
90	90	4	0.2000	0.000	0.000	0.000	2.000
91	91	4	0.2000	0.000	0.000	0.000	2.000
92	92	4	0.2000	0.000	0.000	0.000	2.000
93	93	4	0.2000	0.000	0.000	0.000	2.000
94	94	4	0.2000	0.000	0.000	0.000	2.000
95	95	4	0.2000	0.000	0.000	0.000	2.000
96	96	4	0.2000	0.000	0.000	0.000	2.000
97	97	4	0.2000	0.000	0.000	0.000	2.000
98	98	4	0.2000	0.000	0.000	0.000	2.000
99	99	4	0.2000	0.000	0.000	0.000	2.000
100	100	4	0.2000	0.000	0.000	0.000	2.000
101	101	4	0.2000	0.000	0.000	0.000	2.000
102	102	4	0.2000	0.000	0.000	0.000	2.000
103	103	4	0.2000	0.000	0.000	0.000	2.000
104	104	4	0.2000	0.000	0.000	0.000	2.000
105	105	4	0.2000	0.000	0.000	0.000	2.000
106	106	4	0.2000	0.000	0.000	0.000	2.000
107	107	4	0.1000	0.000	0.000	0.000	2.000

```

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|               PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021* |
|               |
|               |
|               ParatiePlus |
|               Exe Time :28 January 2022 15:35:01 |
+-----+

```

ELEMENT GROUP NO. 3

```

WallElement_11138 :
2 15 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0
.....
.....2D WALL ELEMENT.....
.....

```

element group behaviour throughout stage analysis

stage status

```

-----
1 active
2 active
3 active

```

material set no. 1

```

prop( 1) young modulus      0.333500E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....      0.00000

```

```

no. of step variable items: 1
step inertia multiplier

```

```

-----
1 1.000
2 1.000
3 1.000

```

element data

e1	na	nb	mat	erc1	erc2	thick	area	inertia	wgt(-z)	by-i	by-j
1	1	2	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
2	2	3	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
3	3	4	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
4	4	5	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
5	5	6	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
6	6	7	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
7	7	8	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
8	8	9	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
9	9	10	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
10	10	11	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
11	11	12	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
12	12	13	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
13	13	14	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
14	14	15	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000
15	15	16	1	0.000	0.000	1.000	1.000	0.8333E-01	25.00	0.000	0.000

48	63	64	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
49	64	65	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
50	65	66	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
51	66	67	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
52	67	68	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
53	68	69	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
54	69	70	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
55	70	71	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
56	71	72	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
57	72	73	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
58	73	74	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
59	74	75	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
60	75	76	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
61	76	77	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
62	77	78	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
63	78	79	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
64	79	80	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
65	80	81	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
66	81	82	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
67	82	83	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
68	83	84	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
69	84	85	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
70	85	86	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
71	86	87	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
72	87	88	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
73	88	89	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
74	89	90	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
75	90	91	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
76	91	92	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
77	92	93	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
78	93	94	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
79	94	95	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
80	95	96	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
81	96	97	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
82	97	98	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
83	98	99	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
84	99	100	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
85	100	101	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
86	101	102	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
87	102	103	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
88	103	104	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
89	104	105	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
90	105	106	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
91	106	107	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:35:01          |
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NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5
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|               PARATIEPLUS(TM)   NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*   |
|               |               |               |               |               |               |               |
|               |               |               |               |               |               |               |
|               |               |               |               |               |               |               |
|               |               |               |               |               |               |               |
|               |               |               |               |               |               |               |
|               |               |               |               |               |               |               |
+-----+

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L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

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PROCESSING DISTRIBUTED LOADS CARD NO. 1
AT Y-COORD 0.000 Z-COORD -4.000 PRESSURE 2.462
L.CURVE 3 Z-COORD 0.000 PRESSURE 2.462

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NO. OF GENERATED NODAL FORCES 21

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
21	-.4000E+01	0.2462000E+00 /	20	-.3800E+01	0.4924000E+00 /	19	-.3600E+01	0.4924000E+00 /
18	-.3400E+01	0.4924000E+00 /	17	-.3200E+01	0.4924000E+00 /	16	-.3000E+01	0.4924000E+00 /
15	-.2800E+01	0.4924000E+00 /	14	-.2600E+01	0.4924000E+00 /	13	-.2400E+01	0.4924000E+00 /
12	-.2200E+01	0.4924000E+00 /	11	-.2000E+01	0.4924000E+00 /	10	-.1800E+01	0.4924000E+00 /
9	-.1600E+01	0.4924000E+00 /	8	-.1400E+01	0.4924000E+00 /	7	-.1200E+01	0.4924000E+00 /
6	-.1000E+01	0.4924000E+00 /	5	-.8000E+00	0.4924000E+00 /	4	-.6000E+00	0.4924000E+00 /
3	-.4000E+00	0.4924000E+00 /	2	-.2000E+00	0.4924000E+00 /	1	0.0000E+00	0.2462000E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 9.8480

PROCESSING DISTRIBUTED LOADS CARD NO. 2
 AT Y-COORD 0.000 Z-COORD -3.000 PRESSURE 2.160
 Z-COORD 0.000 PRESSURE 2.160
 L.CURVE 3

NO. OF GENERATED NODAL FORCES 16

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
16	-.3000E+01	0.2160000E+00 /	15	-.2800E+01	0.4320000E+00 /	14	-.2600E+01	0.4320000E+00 /
13	-.2400E+01	0.4320000E+00 /	12	-.2200E+01	0.4320000E+00 /	11	-.2000E+01	0.4320000E+00 /
10	-.1800E+01	0.4320000E+00 /	9	-.1600E+01	0.4320000E+00 /	8	-.1400E+01	0.4320000E+00 /
7	-.1200E+01	0.4320000E+00 /	6	-.1000E+01	0.4320000E+00 /	5	-.8000E+00	0.4320000E+00 /
4	-.6000E+00	0.4320000E+00 /	3	-.4000E+00	0.4320000E+00 /	2	-.2000E+00	0.4320000E+00 /
1	0.0000E+00	0.2160000E+00 /						

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 6.4800

PROCESSING DISTRIBUTED LOADS CARD NO. 3
 AT Y-COORD 0.000 Z-COORD -4.000 PRESSURE 2.245
 Z-COORD -3.000 PRESSURE 2.245
 L.CURVE 3

NO. OF GENERATED NODAL FORCES 6

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
21	-.4000E+01	0.2245000E+00 /	20	-.3800E+01	0.4490000E+00 /	19	-.3600E+01	0.4490000E+00 /
18	-.3400E+01	0.4490000E+00 /	17	-.3200E+01	0.4490000E+00 /	16	-.3000E+01	0.2245000E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 2.2450

NO. OF DISTRIBUTED LOAD CARDS 3

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:01          |
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L O A D      B A L A N C E

STEP 1 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP 1 TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP 2 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP 2 TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP 3 TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          18.573000
STEP 3 TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

```

LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:01          |
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NO. OF LAYERS ..... 4
NO. OF DATA PER LAYER..... 160
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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                 |
|                                                                                               Exe Time :28 January 2022   15:35:01                                                                 |
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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

```

ITEM NO.  1&lt;NAME      &gt;= 10.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= 15.000  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD  &gt;= 19.000  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB  &gt;= 9.0000  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW  &gt;= 10.000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT &gt;= 35.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA    &gt;= 0.26600  WALL NO.      1
ITEM NO. 11&lt;U-KP    &gt;= 9.7350  WALL NO.      1
ITEM NO. 12&lt;K0-NC   &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR     &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL   &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC     &gt;= 40000.  (BOTH WALLS)
ITEM NO. 18&lt;EUR     &gt;= 40000.  (BOTH WALLS)
ITEM NO. 27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61&lt;U-TZALPH&gt;= 0.50000  (BOTH WALLS)
ITEM NO. 82&lt;D-NATURE&gt;= 1.0000  (BOTH WALLS)
ITEM NO. 83&lt;D-LEVEL &gt;= 0.0000  (BOTH WALLS)
ITEM NO. 89&lt;D-FRICT &gt;= 35.000  (BOTH WALLS)
ITEM NO. 90&lt;D-KA    &gt;= 0.23500  WALL NO.      1
ITEM NO. 91&lt;D-KP    &gt;= 5.8790  WALL NO.      1
ITEM NO. 107&lt;D-PERM &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000  (BOTH WALLS)

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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

```

ITEM NO.  1&lt;NAME      &gt;= 11.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= -4.0000  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD  &gt;= 19.000  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB  &gt;= 9.0000  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW  &gt;= 10.000  (BOTH WALLS)
ITEM NO.  8&lt;U-COHE  &gt;= 2.0000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT &gt;= 25.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA    &gt;= 0.68900  WALL NO.      1
ITEM NO. 11&lt;U-KP    &gt;= 4.3510  WALL NO.      1
ITEM NO. 12&lt;K0-NC   &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR     &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL   &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC     &gt;= 30000.  (BOTH WALLS)
ITEM NO. 18&lt;EUR     &gt;= 90000.  (BOTH WALLS)
ITEM NO. 27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61&lt;U-TZALPH&gt;= 0.50000  (BOTH WALLS)
ITEM NO. 82&lt;D-NATURE&gt;= 1.0000  (BOTH WALLS)
ITEM NO. 83&lt;D-LEVEL &gt;= 0.0000  (BOTH WALLS)
ITEM NO. 88&lt;D-COHE  &gt;= 2.0000  (BOTH WALLS)
ITEM NO. 89&lt;D-FRICT &gt;= 25.000  (BOTH WALLS)
ITEM NO. 90&lt;D-KA    &gt;= 0.32200  WALL NO.      1
ITEM NO. 91&lt;D-KP    &gt;= 2.3800  WALL NO.      1
ITEM NO. 107&lt;D-PERM &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141&lt;D-TZALPH&gt;= 0.50000  (BOTH WALLS)

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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

```

ITEM NO.  1&lt;NAME      &gt;= 12.000  (BOTH WALLS)
ITEM NO.  2&lt;NATURE   &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  3&lt;LEVEL    &gt;= -12.120  (BOTH WALLS)
ITEM NO.  4&lt;WALL     &gt;= 1.0000  (BOTH WALLS)
ITEM NO.  5&lt;GAMMAD  &gt;= 20.500  (BOTH WALLS)
ITEM NO.  6&lt;GAMMAB  &gt;= 10.500  (BOTH WALLS)
ITEM NO.  7&lt;GAMMAW  &gt;= 10.000  (BOTH WALLS)
ITEM NO.  8&lt;U-COHE  &gt;= 10.000  (BOTH WALLS)
ITEM NO.  9&lt;U-FRICT &gt;= 27.000  (BOTH WALLS)
ITEM NO. 10&lt;U-KA    &gt;= 0.55700  WALL NO.      1
ITEM NO. 11&lt;U-KP    &gt;= 4.7930  WALL NO.      1
ITEM NO. 12&lt;K0-NC   &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 13&lt;NEXP    &gt;= 0.50000  (BOTH WALLS)
ITEM NO. 14&lt;OCR     &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 16&lt;MODEL   &gt;= 1.0000  (BOTH WALLS)
ITEM NO. 17&lt;EVC     &gt;= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18&lt;EUR     &gt;= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27&lt;U-PERM  &gt;= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58&lt;U-TZKZ  &gt;= 10000.  (BOTH WALLS)

```

ITEM NO. 60<tab>U-TZDELT<tab>= 25.000 (BOTH WALLS)
ITEM NO. 61<tab>U-TZALPH<tab>= 0.50000 (BOTH WALLS)
ITEM NO. 82<tab>D-NATURE<tab>= 1.00000 (BOTH WALLS)
ITEM NO. 83<tab>D-LEVEL <tab>= 0.0000 (BOTH WALLS)
ITEM NO. 88<tab>D-COHE <tab>= 10.000 (BOTH WALLS)
ITEM NO. 89<tab>D-FRICT <tab>= 27.000 (BOTH WALLS)
ITEM NO. 90<tab>D-KA <tab>= 0.29800 WALL NO. 1
ITEM NO. 91<tab>D-KP <tab>= 2.6410 WALL NO. 1
ITEM NO. 107<tab>D-PERM <tab>= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<tab>D-TZKZ <tab>= 10000. (BOTH WALLS)
ITEM NO. 140<tab>D-TZDELT<tab>= 25.000 (BOTH WALLS)
ITEM NO. 141<tab>D-TZALPH<tab>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 1

ITEM NO. 1<tab>NAME <tab>= 13.000 (BOTH WALLS)
ITEM NO. 2<tab>NATURE <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 3<tab>LEVEL <tab>= -14.120 (BOTH WALLS)
ITEM NO. 4<tab>WALL <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 5<tab>GAMMAD <tab>= 22.500 (BOTH WALLS)
ITEM NO. 6<tab>GAMMAB <tab>= 12.500 (BOTH WALLS)
ITEM NO. 7<tab>GAMMAW <tab>= 10.000 (BOTH WALLS)
ITEM NO. 8<tab>U-COHE <tab>= 50.000 (BOTH WALLS)
ITEM NO. 9<tab>U-FRICT <tab>= 27.000 (BOTH WALLS)
ITEM NO. 10<tab>U-KA <tab>= 0.49600 WALL NO. 1
ITEM NO. 11<tab>U-KP <tab>= 4.4840 WALL NO. 1
ITEM NO. 12<tab>K0-NC <tab>= 0.50000 (BOTH WALLS)
ITEM NO. 13<tab>NEXP <tab>= 0.50000 (BOTH WALLS)
ITEM NO. 14<tab>OCR <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 16<tab>MODEL <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 17<tab>EVC <tab>= 0.13500E+06 (BOTH WALLS)
ITEM NO. 18<tab>EUR <tab>= 0.40500E+06 (BOTH WALLS)
ITEM NO. 27<tab>U-PERM <tab>= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<tab>U-TZALPH<tab>= 0.50000 (BOTH WALLS)
ITEM NO. 82<tab>D-NATURE<tab>= 1.0000 (BOTH WALLS)
ITEM NO. 83<tab>D-LEVEL <tab>= 0.0000 (BOTH WALLS)
ITEM NO. 88<tab>D-COHE <tab>= 50.000 (BOTH WALLS)
ITEM NO. 89<tab>D-FRICT <tab>= 27.000 (BOTH WALLS)
ITEM NO. 90<tab>D-KA <tab>= 0.29800 WALL NO. 1
ITEM NO. 91<tab>D-KP <tab>= 2.6870 WALL NO. 1
ITEM NO. 107<tab>D-PERM <tab>= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<tab>D-TZALPH<tab>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO. 1<tab>NAME <tab>= 10.000 (BOTH WALLS)
ITEM NO. 2<tab>NATURE <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 3<tab>LEVEL <tab>= 15.000 (BOTH WALLS)
ITEM NO. 4<tab>WALL <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 5<tab>GAMMAD <tab>= 19.000 (BOTH WALLS)
ITEM NO. 6<tab>GAMMAB <tab>= 9.0000 (BOTH WALLS)
ITEM NO. 7<tab>GAMMAW <tab>= 10.000 (BOTH WALLS)
ITEM NO. 9<tab>U-FRICT <tab>= 35.000 (BOTH WALLS)
ITEM NO. 10<tab>U-KA <tab>= 0.26600 WALL NO. 1
ITEM NO. 11<tab>U-KP <tab>= 9.7350 WALL NO. 1
ITEM NO. 12<tab>K0-NC <tab>= 0.50000 (BOTH WALLS)
ITEM NO. 13<tab>NEXP <tab>= 0.50000 (BOTH WALLS)
ITEM NO. 14<tab>OCR <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 16<tab>MODEL <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 17<tab>EVC <tab>= 40000. (BOTH WALLS)
ITEM NO. 18<tab>EUR <tab>= 40000. (BOTH WALLS)
ITEM NO. 27<tab>U-PERM <tab>= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<tab>U-TZALPH<tab>= 0.50000 (BOTH WALLS)
ITEM NO. 82<tab>D-NATURE<tab>= 1.0000 (BOTH WALLS)
ITEM NO. 83<tab>D-LEVEL <tab>= 0.0000 (BOTH WALLS)
ITEM NO. 89<tab>D-FRICT <tab>= 35.000 (BOTH WALLS)
ITEM NO. 90<tab>D-KA <tab>= 0.23500 WALL NO. 1
ITEM NO. 91<tab>D-KP <tab>= 5.8790 WALL NO. 1
ITEM NO. 107<tab>D-PERM <tab>= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<tab>D-TZALPH<tab>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 2

ITEM NO. 1<tab>NAME <tab>= 11.000 (BOTH WALLS)
ITEM NO. 2<tab>NATURE <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 3<tab>LEVEL <tab>= -4.0000 (BOTH WALLS)
ITEM NO. 4<tab>WALL <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 5<tab>GAMMAD <tab>= 19.000 (BOTH WALLS)
ITEM NO. 6<tab>GAMMAB <tab>= 9.0000 (BOTH WALLS)
ITEM NO. 7<tab>GAMMAW <tab>= 10.000 (BOTH WALLS)
ITEM NO. 8<tab>U-COHE <tab>= 2.0000 (BOTH WALLS)
ITEM NO. 9<tab>U-FRICT <tab>= 25.000 (BOTH WALLS)
ITEM NO. 10<tab>U-KA <tab>= 0.68900 WALL NO. 1
ITEM NO. 11<tab>U-KP <tab>= 4.3510 WALL NO. 1
ITEM NO. 12<tab>K0-NC <tab>= 0.50000 (BOTH WALLS)
ITEM NO. 13<tab>NEXP <tab>= 0.50000 (BOTH WALLS)
ITEM NO. 14<tab>OCR <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 16<tab>MODEL <tab>= 1.0000 (BOTH WALLS)
ITEM NO. 17<tab>EVC <tab>= 30000. (BOTH WALLS)

ITEM NO. 18<EUR >= 90000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 2.0000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 25.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.32200 WALL NO. 1
ITEM NO. 91<D-KP >= 2.3800 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -12.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.55700 WALL NO. 1
ITEM NO. 11<U-KP >= 4.7930 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.10300E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.30900E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 60<U-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 10.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6410 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
ITEM NO. 140<D-TZDELTA>= 25.000 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 2

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -14.120 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.49600 WALL NO. 1
ITEM NO. 11<U-KP >= 4.4840 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 0.13500E+06 (BOTH WALLS)
ITEM NO. 18<EUR >= 0.40500E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 88<D-COHE >= 50.000 (BOTH WALLS)
ITEM NO. 89<D-FRICT >= 27.000 (BOTH WALLS)
ITEM NO. 90<D-KA >= 0.29800 WALL NO. 1
ITEM NO. 91<D-KP >= 2.6870 WALL NO. 1
ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 10.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 15.000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.26600 WALL NO. 1
ITEM NO. 11<U-KP >= 9.7350 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)

ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 40000.	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 40000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	>= 0.34008	WALL NO.	1
ITEM NO.	48	U-KAEW	>= 0.42980	WALL NO.	1
ITEM NO.	49	U-KPED	>= 10.105	WALL NO.	1
ITEM NO.	50	U-KPEW	>= 9.9365	WALL NO.	1
ITEM NO.	61	U-TZALPH	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	90	D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	91	D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	>= 0.27269	WALL NO.	1
ITEM NO.	128	D-KAEW	>= 0.33966	WALL NO.	1
ITEM NO.	129	D-KPED	>= 5.3275	WALL NO.	1
ITEM NO.	130	D-KPEW	>= 4.9256	WALL NO.	1
ITEM NO.	141	D-TZALPH	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO.	1	NAME	>= 11.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= -4.0000	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	>= 2.0000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	10	U-KA	>= 0.68900	WALL NO.	1
ITEM NO.	11	U-KP	>= 4.3510	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 30000.	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 90000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	>= 0.94201	WALL NO.	1
ITEM NO.	48	U-KAEW	>= 1.0432	WALL NO.	1
ITEM NO.	49	U-KPED	>= 4.4659	WALL NO.	1
ITEM NO.	50	U-KPEW	>= 4.3209	WALL NO.	1
ITEM NO.	61	U-TZALPH	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 2.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	90	D-KA	>= 0.32200	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.3800	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	>= 0.35689	WALL NO.	1
ITEM NO.	128	D-KAEW	>= 0.42291	WALL NO.	1
ITEM NO.	129	D-KPED	>= 2.0188	WALL NO.	1
ITEM NO.	130	D-KPEW	>= 1.6514	WALL NO.	1
ITEM NO.	141	D-TZALPH	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 3

ITEM NO.	1	NAME	>= 12.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= -12.120	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 20.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 10.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	>= 27.000	(BOTH WALLS)	
ITEM NO.	10	U-KA	>= 0.55700	WALL NO.	1
ITEM NO.	11	U-KP	>= 4.7930	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.10300E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.30900E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	>= 0.91802	WALL NO.	1
ITEM NO.	48	U-KAEW	>= 1.0098	WALL NO.	1
ITEM NO.	49	U-KPED	>= 4.8916	WALL NO.	1
ITEM NO.	50	U-KPEW	>= 4.7361	WALL NO.	1
ITEM NO.	58	U-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	60	U-TZDELTA	>= 25.000	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 27.000	(BOTH WALLS)	

ITEM NO.	90	D-KA	>= 0.29800	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.6410	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	>= 0.33201	WALL NO.	1
ITEM NO.	128	D-KAEW	>= 0.38559	WALL NO.	1
ITEM NO.	129	D-KPED	>= 2.2609	WALL NO.	1
ITEM NO.	130	D-KPEW	>= 1.9528	WALL NO.	1
ITEM NO.	138	D-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	140	D-TZDELTA	>= 25.000	(BOTH WALLS)	
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 3

ITEM NO.	1	NAME	>= 13.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= -14.120	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 22.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 12.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	>= 50.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	>= 27.000	(BOTH WALLS)	
ITEM NO.	10	U-KA	>= 0.49600	WALL NO.	1
ITEM NO.	11	U-KP	>= 4.4840	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	>= 0.74797	WALL NO.	1
ITEM NO.	48	U-KAEW	>= 0.99417	WALL NO.	1
ITEM NO.	49	U-KPED	>= 4.5337	WALL NO.	1
ITEM NO.	50	U-KPEW	>= 4.3804	WALL NO.	1
ITEM NO.	61	U-TZALPHA	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 50.000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 27.000	(BOTH WALLS)	
ITEM NO.	90	D-KA	>= 0.29800	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.6870	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	>= 0.33201	WALL NO.	1
ITEM NO.	128	D-KAEW	>= 0.37602	WALL NO.	1
ITEM NO.	129	D-KPED	>= 2.3068	WALL NO.	1
ITEM NO.	130	D-KPEW	>= 2.0552	WALL NO.	1
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 12 VALUES


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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:35:01                            |
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PHASE DESCRIPTORS

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STEP NO.      1 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30
Z-PC           0.000            0.000
Z-EXCAVATION   -4.000            0.000
Z-WATER_TABLE  -5.887            -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000            0.000
ZQ             0.000            0.000
DZW_OF_THE_WATER_TABLE  0.1931            0.000
QS_ON_THE_EXCAVATION_SIDE  0.000            0.000
ZQS           0.000            -0.9990E+30
ZCUT           0.000            0.000
BALANCE LEVEL FOR PORE PRESSURES  -21.20            -21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)  0.000            0.000
PORE_UPDATE_FLAG  0.000            0.000
PORE_TAB._FLAG (gt.0= use tabs)  0.000            0.000
lateral thrusts reduction elevatio  0.000            0.000
Downhill reduction factor for effe  0.000            0.000
Downhill reduction factor for pore  0.000            0.000
Uphill reduction factor for effect  0.000            0.000
Uphill reduction factor for pore p  0.000            0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]    0.000            0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]    0.000            0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]   0.000            0.000
UPHILL BETA ANGLE (SLOPE) [deg]     0.000            0.000
UPHILL DELTA/PHI RATIO              0.000            0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]   0.000            0.000
DOWNHILL DELTA/PHI RATIO            0.000            0.000
DYN.WATER BEHAVIOUR                0.000            0.000
Excess pore pressure RATIO Ru       0.000            0.000
SEISMIC PRESSURE LOWER VALUE        0.000            0.000
SEISMIC PRESSURE UPPER VALUE        0.000            0.000
SEISMIC PRESSURE LOWER LEVEL        0.000            0.000
SEISMIC PRESSURE UPPER LEVEL        0.000            0.000

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=====end of step 1

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STEP NO.      2 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30
Z-PC           0.000            0.000
Z-EXCAVATION   -4.000            0.000
Z-WATER_TABLE  -5.887            -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000            0.000
ZQ             0.000            0.000
DZW_OF_THE_WATER_TABLE  0.1931            0.000
QS_ON_THE_EXCAVATION_SIDE  0.000            0.000
ZQS           0.000            -0.9990E+30
ZCUT           0.000            0.000
BALANCE LEVEL FOR PORE PRESSURES  -21.20            -21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)  0.000            0.000
PORE_UPDATE_FLAG  0.000            0.000
PORE_TAB._FLAG (gt.0= use tabs)  0.000            0.000
lateral thrusts reduction elevatio  0.000            0.000
Downhill reduction factor for effe  0.000            0.000
Downhill reduction factor for pore  0.000            0.000
Uphill reduction factor for effect  0.000            0.000
Uphill reduction factor for pore p  0.000            0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]    0.000            0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]    0.000            0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]   0.000            0.000
UPHILL BETA ANGLE (SLOPE) [deg]     0.000            0.000
UPHILL DELTA/PHI RATIO              0.000            0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]   0.000            0.000
DOWNHILL DELTA/PHI RATIO            0.000            0.000
DYN.WATER BEHAVIOUR                0.000            0.000
Excess pore pressure RATIO Ru       0.000            0.000
SEISMIC PRESSURE LOWER VALUE        0.000            0.000
SEISMIC PRESSURE UPPER VALUE        0.000            0.000
SEISMIC PRESSURE LOWER LEVEL        0.000            0.000
SEISMIC PRESSURE UPPER LEVEL        0.000            0.000

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=====end of step 2

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STEP NO.      3 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30

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Z-PC	0.000	0.000
Z-EXCAVATION	-4.000	0.000
Z-WATER_TABLE	-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	-0.8640E-01	0.000
	MANUAL	
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.4320E-01	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	-0.4320E-01	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.5000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	-9.264	0.000
DOWNHILL DELTA/PHI RATIO	0.5000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

=====end of step 3

LEFT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:35:01                            |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 1.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 11.400000000000000
 FOUNDATION WIDTH (B) 9.900000000000000
 ZETA-F..... 4.700000000000000
 Q-F 40.000000000000000
 BETA 45.000000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 5874

NO. OF D.P.W FOR THIS AREA 16376
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 5609. REMNOR= 0.000 RATIO =0.1783 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1763E+06 RDR = 0.000
 RATIO=0.1783 RATIO= 0.000
 MAX UN= 8.228 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 3598. REMNOR=0.5090E-17 RATIO =0.1428 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1763E+06 RDR = 0.000
 RATIO=0.1428 RATIO= 0.000
 MAX UN= 19.40 IEQ= 123 NODE 62 DOF 1 Y-DISPL.F
 MIN UN=-.3913 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 1709. REMNOR=0.5617E-16 RATIO =0.9845E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1763E+06 RDR = 0.000
 RATIO=0.9845E-01 RATIO= 0.000
 MAX UN= 20.54 IEQ= 145 NODE 73 DOF 1 Y-DISPL.F
 MIN UN=-.1656E-07 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 37.84 REMNOR=0.2131E-16 RATIO =0.1465E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1763E+06 RDR = 0.000
 RATIO=0.1465E-01 RATIO= 0.000
 MAX UN= 4.729 IEQ= 165 NODE 83 DOF 1 Y-DISPL.F
 MIN UN=-.4769 IEQ= 191 NODE 96 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM=0.1148E-01 REMNOR=0.1487E-16 RATIO =0.2552E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000

RDT =0.1763E+06 RDR = 0.000
RATIOT=0.2552E-03 RATIO= 0.000
MAX UN=0.2307E-07 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
MIN UN=-.7985E-01 IEQ= 197 NODE 99 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1763E+06 RIMNOR= 0.000
RENORM=0.7114E-04 REMNOR=0.1185E-16 RATIO =0.2009E-04 TOLER =0.1000E-03 CONVERGED !
RFMAX = 58.02 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1763E+06 RDR = 0.000
RATIOT=0.2009E-04 RATIO= 0.000
MAX UN=0.3618E-02 IEQ= 169 NODE 85 DOF 1 Y-DISPL.F
MIN UN=-.2260E-07 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|              PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                                                                            |
|                                                                                               ParatiePlus  |
|                                                                                               Exe Time :28 January 2022  15:35:01  |
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New Project
SOLUTION REACHED USING      6 ITERATIONS ON      40

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PRINT OUT FOR TIME STEP 1  ( AT TIME  1.000  ) SUBINCREMENT 00001/00001

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PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

```

	Y-DISPL.F	X-ROT. F
	02	04
1	2.0141480E-02	-1.4795175E-03
2	1.9845576E-02	-1.4795175E-03
3	1.9549673E-02	-1.4795156E-03
4	1.9253770E-02	-1.4795072E-03
5	1.8957871E-02	-1.4794847E-03
6	1.8661978E-02	-1.4794373E-03
7	1.8366098E-02	-1.4793515E-03
8	1.8070241E-02	-1.4792108E-03
9	1.7774419E-02	-1.4789957E-03
10	1.7478649E-02	-1.4786837E-03
11	1.7182954E-02	-1.4782495E-03
12	1.6887360E-02	-1.4776647E-03
13	1.6591900E-02	-1.4768979E-03
14	1.6296615E-02	-1.4759150E-03
15	1.6001551E-02	-1.4746785E-03
16	1.5706763E-02	-1.4731485E-03
17	1.5412236E-02	-1.4720842E-03
18	1.5117944E-02	-1.4708015E-03
19	1.4823932E-02	-1.4692726E-03
20	1.4530253E-02	-1.4674676E-03
21	1.4236966E-02	-1.4653553E-03
22	1.3944135E-02	-1.4628834E-03
23	1.3651841E-02	-1.4599848E-03
24	1.3360175E-02	-1.4566031E-03
25	1.3069236E-02	-1.4526920E-03
26	1.2779136E-02	-1.4482160E-03
27	1.2489989E-02	-1.4431499E-03
28	1.2201916E-02	-1.4374789E-03
29	1.1915040E-02	-1.4311988E-03
30	1.1629478E-02	-1.4243158E-03
31	1.1345352E-02	-1.4168465E-03
32	1.1062777E-02	-1.4088178E-03
33	1.0781860E-02	-1.4002648E-03
34	1.0502703E-02	-1.3912255E-03
35	1.0225401E-02	-1.3817351E-03
36	9.9500387E-03	-1.3718249E-03
37	9.6766976E-03	-1.3615225E-03
38	9.4054543E-03	-1.3508514E-03
39	9.1363804E-03	-1.3398312E-03
40	8.8695454E-03	-1.3284778E-03
41	8.6050120E-03	-1.3168031E-03
42	8.3428450E-03	-1.3048153E-03
43	8.0831064E-03	-1.2925188E-03
44	7.8258580E-03	-1.2799142E-03
45	7.5711628E-03	-1.2669986E-03
46	7.3190810E-03	-1.2537649E-03
47	7.0696787E-03	-1.2402027E-03
48	6.8230228E-03	-1.2262976E-03
49	6.5791837E-03	-1.2120315E-03
50	6.3382370E-03	-1.1973823E-03
51	6.1002593E-03	-1.1823242E-03
52	5.8653412E-03	-1.1668280E-03
53	5.6335642E-03	-1.1508602E-03
54	5.4050310E-03	-1.1343842E-03
55	5.1798471E-03	-1.1173597E-03
56	4.9581266E-03	-1.0997429E-03
57	4.7399926E-03	-1.0814865E-03
58	4.5255780E-03	-1.0625396E-03
59	4.3150264E-03	-1.0428481E-03
60	4.1084923E-03	-1.0223544E-03
61	3.9061421E-03	-1.0009978E-03
62	3.7081549E-03	-9.7871419E-04
63	3.5147175E-03	-9.5551508E-04
64	3.3260043E-03	-9.3148534E-04
65	3.1421736E-03	-9.0670195E-04
66	2.9633691E-03	-8.8123425E-04
67	2.7897214E-03	-8.5514412E-04
68	2.6213493E-03	-8.2848618E-04
69	2.4583616E-03	-8.0130801E-04
70	2.3008581E-03	-7.7365033E-04
71	2.1489311E-03	-7.4554726E-04
72	2.0026670E-03	-7.1702650E-04
73	1.8621425E-03	-6.8817717E-04
74	1.7274081E-03	-6.5914926E-04

75 1.5984851E-03 -6.3008565E-04
76 1.4753671E-03 -6.0112229E-04
77 1.3580209E-03 -5.7238862E-04
78 1.2463881E-03 -5.4400776E-04
79 1.1403865E-03 -5.1609688E-04
80 1.0399106E-03 -4.8876747E-04
81 9.4483364E-04 -4.6212561E-04
82 8.5500782E-04 -4.3627226E-04
83 7.7026576E-04 -4.1130355E-04
84 6.9042132E-04 -3.8731102E-04
85 6.1527046E-04 -3.6438188E-04
86 5.4459212E-04 -3.4259938E-04
87 4.7814903E-04 -3.2204199E-04
88 4.1568917E-04 -3.0277697E-04
89 3.5694870E-04 -2.8485518E-04
90 3.0165250E-04 -2.6831132E-04
91 2.4952801E-04 -2.5316805E-04
92 2.0029147E-04 -2.3943187E-04
93 1.5366182E-04 -2.2709729E-04
94 1.0936037E-04 -2.1614548E-04
95 6.7113667E-05 -2.0654304E-04
96 2.6656405E-05 -1.9824186E-04
97 -1.2265732E-05 -1.9118052E-04
98 -4.9893625E-05 -1.8528650E-04
99 -8.6452662E-05 -1.8047744E-04
100 -1.2215085E-04 -1.7666215E-04
101 -1.5717718E-04 -1.7374169E-04
102 -1.9170009E-04 -1.7160965E-04
103 -2.2586772E-04 -1.7015225E-04
104 -2.5979962E-04 -1.6924871E-04
105 -2.9359559E-04 -1.6877095E-04
106 -3.2732739E-04 -1.6858398E-04
107 -3.6103742E-04 -1.6854590E-04

1.000	1.000	52.87	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	11.11	-1.3652E-02	85.43	55.54	85.43	55.54	ACTIVE	0.000	-4.400	0.000
1.000	1.000	55.54	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	11.64	-1.3360E-02	89.30	58.21	89.30	58.21	ACTIVE	0.000	-4.600	0.000
1.000	1.000	58.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	12.18	-1.3069E-02	93.18	60.88	93.18	60.88	ACTIVE	0.000	-4.800	0.000
1.000	1.000	60.88	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	12.71	-1.2779E-02	97.05	63.55	97.05	63.55	ACTIVE	0.000	-5.000	0.000
1.000	1.000	63.55	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	13.24	-1.2490E-02	100.9	66.22	100.9	66.22	ACTIVE	0.000	-5.200	0.000
1.000	1.000	66.22	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	13.78	-1.2202E-02	104.8	68.89	104.8	68.89	ACTIVE	0.000	-5.400	0.000
1.000	1.000	68.89	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	14.31	-1.1915E-02	108.7	71.56	108.7	71.56	ACTIVE	0.000	-5.600	0.000
1.000	1.000	71.56	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	14.85	-1.1629E-02	112.6	74.23	112.6	74.23	ACTIVE	0.000	-5.800	0.000
1.000	1.000	74.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	15.45	-1.1345E-02	115.3	76.12	115.3	76.12	ACTIVE	0.000	-6.000	1.127
1.000	1.000	77.25	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	16.11	-1.1063E-02	117.2	77.42	117.2	77.42	ACTIVE	0.000	-6.200	3.114
1.000	1.000	80.53	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	16.76	-1.0782E-02	119.1	78.72	119.1	78.72	ACTIVE	0.000	-6.400	5.101
1.000	1.000	83.82	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	17.42	-1.0503E-02	121.0	80.01	121.0	80.01	ACTIVE	0.000	-6.600	7.089
1.000	1.000	87.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	18.08	-1.0225E-02	122.8	81.31	122.8	81.31	ACTIVE	0.000	-6.800	9.076
1.000	1.000	90.39	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	18.73	-9.9500E-03	124.7	82.61	124.7	82.61	ACTIVE	0.000	-7.000	11.06
1.000	1.000	93.67	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	19.39	-9.6767E-03	126.6	83.90	126.6	83.90	ACTIVE	0.000	-7.200	13.05
1.000	1.000	96.96	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	20.05	-9.4055E-03	128.5	85.20	128.5	85.20	ACTIVE	0.000	-7.400	15.04
1.000	1.000	100.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	20.70	-9.1364E-03	130.4	86.50	130.4	86.50	ACTIVE	0.000	-7.600	17.03
1.000	1.000	103.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	21.36	-8.8695E-03	132.2	87.79	132.2	87.79	ACTIVE	0.000	-7.800	19.01
1.000	1.000	106.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	22.02	-8.6050E-03	134.1	89.08	134.1	89.08	ACTIVE	0.000	-8.000	21.00
1.000	1.000	110.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.67	-8.3428E-03	136.0	90.38	136.0	90.38	ACTIVE	0.000	-8.200	22.99
1.000	1.000	113.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	23.33	-8.0831E-03	137.9	91.67	137.9	91.67	ACTIVE	0.000	-8.400	24.97
1.000	1.000	116.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.98	-7.8259E-03	139.7	92.96	139.7	92.96	ACTIVE	0.000	-8.600	26.96
1.000	1.000	119.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	24.64	-7.5712E-03	141.6	94.25	141.6	94.25	ACTIVE	0.000	-8.800	28.95
1.000	1.000	123.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	25.32	-7.3191E-03	143.7	95.67	143.7	95.67	ACTIVE	0.000	-9.000	30.94
1.000	1.000	126.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	26.00	-7.0697E-03	145.7	97.10	145.7	97.10	ACTIVE	0.000	-9.200	32.92
1.000	1.000	130.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	26.69	-6.8230E-03	147.8	98.52	147.8	98.52	ACTIVE	0.000	-9.400	34.91
1.000	1.000	133.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	27.37	-6.5792E-03	149.9	99.94	149.9	99.94	ACTIVE	0.000	-9.600	36.90
1.000	1.000	136.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	28.05	-6.3382E-03	151.9	101.4	151.9	101.4	ACTIVE	0.000	-9.800	38.89
1.000	1.000	140.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	28.73	-6.1003E-03	154.0	102.8	154.0	102.8	ACTIVE	0.000	-10.00	40.87
1.000	1.000	143.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	29.41	-5.8653E-03	156.0	104.2	156.0	104.2	ACTIVE	0.000	-10.20	42.86
1.000	1.000	147.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	30.09	-5.6336E-03	158.1	105.6	158.1	105.6	ACTIVE	0.000	-10.40	44.85
1.000	1.000	150.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.76	-5.4050E-03	160.1	107.0	160.1	107.0	ACTIVE	0.000	-10.60	46.83
1.000	1.000	153.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.44	-5.1798E-03	162.1	108.4	162.1	108.4	ACTIVE	0.000	-10.80	48.82
1.000	1.000	157.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	32.12	-4.9581E-03	164.1	109.8	164.1	109.8	ACTIVE	0.000	-11.00	50.81
1.000	1.000	160.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	32.79	-4.7400E-03	166.2	111.2	166.2	111.2	ACTIVE	0.000	-11.20	52.80
1.000	1.000	164.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	33.47	-4.5256E-03	168.2	112.6	168.2	112.6	ACTIVE	0.000	-11.40	54.78
1.000	1.000	167.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	34.14	-4.3150E-03	170.2	113.9	170.2	113.9	ACTIVE	0.000	-11.60	56.77
1.000	1.000	170.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	34.82	-4.1085E-03	172.2	115.3	172.2	115.3	ACTIVE	0.000	-11.80	58.76
1.000	1.000	174.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	35.49	-3.9061E-03	174.2	116.7	174.2	116.7	ACTIVE	0.000	-12.00	60.75
1.000	1.000	177.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.20	-3.7082E-03	176.3	83.29	176.3	88.20	ACTIVE	0.000	-12.20	62.73
1.000	1.000	146.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.86	-3.5147E-03	178.6	84.57	178.6	89.21	ACTIVE	0.000	-12.40	64.72
1.000	1.000	149.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	30.51	-3.3260E-03	180.9	85.85	180.9	90.22	ACTIVE	0.000	-12.60	66.71
1.000	1.000	152.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	31.16	-3.1422E-03	183.2	87.12	183.2	91.23	ACTIVE	0.000	-12.80	68.70
1.000	1.000	155.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	31.82	-2.9634E-03	185.5	88.40	185.5	92.24	ACTIVE	0.000	-13.00	70.68
1.000	1.000	159.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	32.47	-2.7897E-03	187.8	89.67	187.8	93.25	ACTIVE	0.000	-13.20	72.67
1.000	1.000	162.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	33.12	-2.6213E-03	190.1	90.94	190.1	94.27	ACTIVE	0.000	-13.40	74.66
1.000	1.000	165.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	33.77	-2.4584E-03	192.4	92.21	192.4	95.28	ACTIVE	0.000	-13.60	76.64
1.000	1.000	168.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	34.42	-2.3009E-03	194.6	93.48	194.6	96.29	ACTIVE	0.000	-13.80	78.63
1.000	1.000	172.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	35.07	-2.1489E-03	196.9	94.75	196.9	97.30	ACTIVE	0.000	-14.00	80.62
1.000	1.000	175.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	22.21	-2.0027E-03	199.3	28.44	199.3	98.40	ACTIVE	0.000	-14.20	82.61
1.000	1.000	111.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	22.87	-1.8621E-03	202.0	29.76	202.0	99.61	ACTIVE	0.000	-14.40	84.59
1.000	1.000	114.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	23.53	-1.7274E-03	204.7	31.09	204.7	100.8	ACTIVE	0.000	-14.60	86.58
1.000	1.000	117.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	24.20	-1.5985E-03	207.3	32.41	207.3	102.0	UL-RL 1.2392E+05		-14.80	88.57
1.000	1.000	121.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.86	-1.4754E-03	210.0	33.73	210.0	103.3	UL-RL 1.2392E+05		-15.00	90.56
1.000	1.000	124.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	25.52	-1.3580E-03	212.6	35.05	212.6	104.5	UL-RL 1.2392E+05		-15.20	92.54
1.000	1.000	127.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	26.18	-1.2464E-03	215.3	36.37	215.3	105.7	UL-RL 1.2392E+05		-15.40	94.53
1.000	1.000	130.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.84	-1.1404E-03	218.0	37.68	218.0	106.9	UL-RL 1.2392E+05		-15.60	96.52
1.000	1.000	134.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.50	-1.0399E-03	220.6	39.00	220.6	108.1	UL-RL 1.2392E+05		-15.80	98.50
1.000	1.000	137.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	28.16	-9.4483E-04	223.3	40.31	223.3	109.3	UL-RL 1.2392E+05		-16.00	100.5
1.000	1.000	140.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.82	-8.5501E-04	225.9	41.63	225.9	110.6	UL-RL 1.2392E+05		-16.20	102.5
1.000	1.000	144.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.48	-7.7027E-04	228.5	42.94	228.5	111.8	UL-RL 1.2392E+05		-16.40	104.5
1.000	1.000	147.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	30.14	-6.9042E-04	231.2	44.25	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	150.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.78	-6.1527E-04	233.6	45.47	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	153.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.67	-5.4459E-04	236.1	47.94	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	158.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.96	-4.7815E-04	238.6	57.39	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	169.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	36.15	-4.1569E-04	241.0	66.35	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	180.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.25	-3.5695E-04	243.5	74.85	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	191.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.26	-3.0165E-04	245.9	82.93	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	201.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	42.19	-2.4953E-04	248.4	90.61	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	211.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	44.06	-2.0029E-04	250.9	97.93	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	220.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.85	-1.5366E-04	253.3	104.9	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	229.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.59	-1.0936E-04	255.8	111.6	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	238.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.28	-6.7114E-05	258.2	118.1	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	246.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.75	-2.6656E-05	260.7	123.5	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	253.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.96	1.2266E-05	263.2	127.5	263.2	130.3	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	259.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	53.15	4.9894E-05	265.6	131.5	265.6	132.5	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	265.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	54.16	8.6453E-05	268.1	134.5	268.1	135.1	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	270.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	55.12	1.2215E-04	270.6	137.3	270.6	137.7	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	275.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	56.07	1.5718E-04	273.0	140.1	273.0	140.3	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	280.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	57.02	1.9170E-04	275.5	142.9	275.5	142.9	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	285.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.95	2.2587E-04	278.0	145.6	278.0	145.6	V-C	4.1306E+04	-20.40	144.2
1.000	1.000	289.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.88	2.5980E-04	280.4	148.2	280.4	148.2	V-C	4.1306E+04	-20.60	146.2
1.000	1.000	294.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.80	2.9360E-04	282.9	150.8	282.9	150.8	V-C	4.1306E+04	-20.80	148.2
1.000	1.000	299.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.72	3.2733E-04	285.4	153.4	285.4	153.4	V-C	4.1306E+04	-21.00	150.2
1.000	1.000	303.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.82	3.6104E-04	287.8	156.1	287.8	156.1	V-C	4.1306E+04	-21.20	152.2
1.000	1.000	308.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:35:01          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 1.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	1.234	1.4237E-02	0.000	6.171	0.000	6.171	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	6.171	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	3.043	1.3944E-02	3.800	15.21	3.800	15.21	PASSIVE	0.000	-4.200	0.000	
1.000	1.000	15.21	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.852	1.3652E-02	7.600	24.26	7.600	24.26	PASSIVE	0.000	-4.400	0.000	
1.000	1.000	24.26	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.661	1.3360E-02	11.40	33.30	11.40	33.30	PASSIVE	0.000	-4.600	0.000	
1.000	1.000	33.30	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.469	1.3069E-02	15.20	42.35	15.20	42.35	PASSIVE	0.000	-4.800	0.000	
1.000	1.000	42.35	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.28	1.2779E-02	19.00	51.39	19.00	51.39	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	51.39	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.09	1.2490E-02	22.80	60.43	22.80	60.43	PASSIVE	0.000	-5.200	0.000	
1.000	1.000	60.43	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.90	1.2202E-02	26.60	69.48	26.60	69.48	PASSIVE	0.000	-5.400	0.000	
1.000	1.000	69.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.70	1.1915E-02	30.40	78.52	30.40	78.52	PASSIVE	0.000	-5.600	0.000
1.000	1.000	78.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	17.51	1.1629E-02	34.20	87.57	34.20	87.57	PASSIVE	0.000	-5.800	0.000
1.000	1.000	87.57	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	19.32	1.1345E-02	38.00	96.61	38.00	96.61	PASSIVE	0.000	-6.000	0.000
1.000	1.000	96.61	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	20.80	1.1063E-02	40.59	102.8	40.59	102.8	PASSIVE	0.000	-6.200	1.211
1.000	1.000	104.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.31	1.0782E-02	42.38	103.3	42.38	103.3	V-C	7167.	-6.400	3.223
1.000	1.000	106.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	21.48	1.0503E-02	44.16	102.2	44.16	102.2	V-C	7167.	-6.600	5.236
1.000	1.000	107.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	21.66	1.0225E-02	45.95	101.1	45.95	101.1	V-C	7167.	-6.800	7.249
1.000	1.000	108.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	21.84	9.9500E-03	47.74	99.94	47.74	99.94	V-C	7167.	-7.000	9.261
1.000	1.000	109.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	22.02	9.6767E-03	49.53	98.84	49.53	98.84	V-C	7167.	-7.200	11.27
1.000	1.000	110.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	22.21	9.4055E-03	51.31	97.75	51.31	97.75	V-C	7167.	-7.400	13.29
1.000	1.000	111.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	22.40	9.1364E-03	53.10	96.68	53.10	96.68	V-C	7167.	-7.600	15.30
1.000	1.000	112.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	22.59	8.8695E-03	54.89	95.62	54.89	95.62	V-C	7167.	-7.800	17.31
1.000	1.000	112.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	22.78	8.6050E-03	56.68	94.58	56.68	94.58	V-C	7167.	-8.000	19.32
1.000	1.000	113.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.98	8.3428E-03	58.46	93.55	58.46	93.55	V-C	7167.	-8.200	21.34
1.000	1.000	114.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	23.18	8.0831E-03	60.25	92.54	60.25	92.54	V-C	7167.	-8.400	23.35
1.000	1.000	115.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.38	7.8259E-03	62.04	91.55	62.04	91.55	V-C	7167.	-8.600	25.36
1.000	1.000	116.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	23.59	7.5712E-03	63.82	90.57	63.82	90.57	V-C	7167.	-8.800	27.38
1.000	1.000	117.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	23.80	7.3191E-03	65.61	89.62	65.61	89.62	V-C	7167.	-9.000	29.39
1.000	1.000	119.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	24.02	7.0697E-03	67.40	88.68	67.40	88.68	V-C	7167.	-9.200	31.40
1.000	1.000	120.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	24.23	6.8230E-03	69.19	87.76	69.19	87.76	V-C	7167.	-9.400	33.41
1.000	1.000	121.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	24.46	6.5792E-03	70.97	86.86	70.97	86.86	V-C	7167.	-9.600	35.43
1.000	1.000	122.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	24.68	6.3382E-03	72.76	85.98	72.76	85.98	V-C	7167.	-9.800	37.44
1.000	1.000	123.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	24.91	6.1003E-03	74.55	85.12	74.55	85.12	V-C	7167.	-10.00	39.45
1.000	1.000	124.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	25.15	5.8653E-03	76.34	84.28	76.34	84.28	V-C	7167.	-10.20	41.46
1.000	1.000	125.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	25.39	5.6336E-03	78.12	83.47	78.12	83.47	V-C	7167.	-10.40	43.48
1.000	1.000	126.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	25.63	5.4050E-03	79.91	82.68	79.91	82.68	V-C	7167.	-10.60	45.49
1.000	1.000	128.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	25.88	5.1798E-03	81.70	81.91	81.70	81.91	V-C	7167.	-10.80	47.50
1.000	1.000	129.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	26.14	4.9581E-03	83.48	81.17	83.48	81.17	V-C	7167.	-11.00	49.52
1.000	1.000	130.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	26.40	4.7400E-03	85.27	80.45	85.27	80.45	V-C	7167.	-11.20	51.53
1.000	1.000	132.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	26.66	4.5256E-03	87.06	79.76	87.06	79.76	V-C	7167.	-11.40	53.54
1.000	1.000	133.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	26.93	4.3150E-03	88.85	79.10	88.85	79.10	V-C	7167.	-11.60	55.55
1.000	1.000	134.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	27.21	4.1085E-03	90.63	78.46	90.63	78.46	V-C 7167.	-11.80	57.57	
1.000	1.000	136.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	27.49	3.9061E-03	92.42	77.86	92.42	77.86	V-C 7167.	-12.00	59.58	
1.000	1.000	137.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	40.03	3.7082E-03	94.33	138.5	94.33	138.5	V-C 2.3669E+04	-12.20	61.59	
1.000	1.000	200.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.71	3.5147E-03	96.42	135.0	96.42	135.0	V-C 2.3669E+04	-12.40	63.60	
1.000	1.000	198.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	39.42	3.3260E-03	98.50	131.5	98.50	131.5	V-C 2.3669E+04	-12.60	65.62	
1.000	1.000	197.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	39.15	3.1422E-03	100.6	128.1	100.6	128.1	V-C 2.3669E+04	-12.80	67.63	
1.000	1.000	195.8	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	38.91	2.9634E-03	102.7	124.9	102.7	124.9	V-C 2.3669E+04	-13.00	69.64	
1.000	1.000	194.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	38.69	2.7897E-03	104.8	121.8	104.8	121.8	V-C 2.3669E+04	-13.20	71.65	
1.000	1.000	193.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	38.49	2.6213E-03	106.9	118.8	106.9	118.8	V-C 2.3669E+04	-13.40	73.67	
1.000	1.000	192.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	38.33	2.4584E-03	108.9	115.9	108.9	115.9	V-C 2.3669E+04	-13.60	75.68	
1.000	1.000	191.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.18	2.3009E-03	111.0	113.2	111.0	113.2	V-C 2.3669E+04	-13.80	77.69	
1.000	1.000	190.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	38.07	2.1489E-03	113.1	110.6	113.1	110.6	V-C 2.3669E+04	-14.00	79.71	
1.000	1.000	190.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	40.94	2.0027E-03	115.4	123.0	115.4	123.0	V-C 3.1023E+04	-14.20	81.72	
1.000	1.000	204.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	40.71	1.8621E-03	117.8	119.8	117.8	119.8	V-C 3.1023E+04	-14.40	83.73	
1.000	1.000	203.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	40.51	1.7274E-03	120.3	116.8	120.3	116.8	V-C 3.1023E+04	-14.60	85.74	
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	40.36	1.5985E-03	122.8	114.0	122.8	114.0	UL-RL 9.3069E+04	-14.80	87.76	
1.000	1.000	201.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.24	1.4754E-03	125.3	111.4	125.3	111.4	UL-RL 9.3069E+04	-15.00	89.77	
1.000	1.000	201.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	40.15	1.3580E-03	127.8	109.0	127.8	109.0	UL-RL 9.3069E+04	-15.20	91.78	
1.000	1.000	200.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	40.10	1.2464E-03	130.3	106.7	130.3	106.7	UL-RL 9.3069E+04	-15.40	93.79	
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	40.09	1.1404E-03	132.8	104.6	132.8	104.6	UL-RL 9.3069E+04	-15.60	95.81	
1.000	1.000	200.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	40.11	1.0399E-03	135.3	102.7	135.3	102.7	UL-RL 9.3069E+04	-15.80	97.82	
1.000	1.000	200.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	40.16	9.4483E-04	137.7	101.0	137.7	101.0	UL-RL 9.3069E+04	-16.00	99.83	
1.000	1.000	200.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	40.25	8.5501E-04	140.2	99.39	140.2	99.39	UL-RL 9.3069E+04	-16.20	101.8	
1.000	1.000	201.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.36	7.7027E-04	142.7	97.96	142.7	97.97	UL-RL 9.3069E+04	-16.40	103.9	
1.000	1.000	201.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	40.51	6.9042E-04	145.2	96.69	145.2	96.70	UL-RL 9.3069E+04	-16.60	105.9	
1.000	1.000	202.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	40.69	6.1527E-04	147.7	95.57	147.7	95.58	UL-RL 9.3069E+04	-16.80	107.9	
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	40.90	5.4459E-04	150.2	94.58	150.2	94.59	UL-RL 9.3069E+04	-17.00	109.9	
1.000	1.000	204.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	41.13	4.7815E-04	152.7	93.73	152.7	93.74	UL-RL 9.3069E+04	-17.20	111.9	
1.000	1.000	205.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	41.38	4.1569E-04	155.2	92.99	155.2	93.01	UL-RL 9.3069E+04	-17.40	113.9	
1.000	1.000	206.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	41.66	3.5695E-04	157.6	92.38	157.6	92.39	UL-RL 9.3069E+04	-17.60	115.9	
1.000	1.000	208.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	41.96	3.0165E-04	160.1	91.87	160.1	91.89	UL-RL 9.3069E+04	-17.80	117.9	

1.000	1.000	209.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.28	2.4953E-04	162.6	91.46	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	211.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.62	2.0029E-04	165.1	91.14	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	213.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.70	1.5366E-04	167.6	89.50	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	213.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.61	1.0936E-04	170.1	87.04	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	213.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.55	6.7114E-05	172.6	84.73	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	212.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.52	2.6656E-05	175.1	82.57	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.51	-1.2266E-05	177.5	80.52	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.52	-4.9894E-05	180.0	78.58	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.56	-8.6453E-05	182.5	76.71	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	212.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.60	-1.2215E-04	185.0	74.92	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	213.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.65	-1.5718E-04	187.5	73.18	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	213.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.71	-1.9170E-04	190.0	71.47	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	213.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.78	-2.2587E-04	192.5	69.80	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	213.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.85	-2.5980E-04	195.0	68.14	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	214.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	42.93	-2.9360E-04	197.4	66.50	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	214.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	43.00	-3.2733E-04	199.9	64.86	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	215.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.54	-3.6104E-04	202.4	63.22	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	215.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:01          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.08037E-02	-1.08037E-02	2.48542E-11	2.16074E-03
2	0.23703	-0.23703	-2.16074E-03	4.95659E-02
3	0.66799	-0.66799	-4.95659E-02	0.18316
4	1.3038	-1.3038	-0.18316	0.44393
5	2.1447	-2.1447	-0.44393	0.87287
6	3.1906	-3.1906	-0.87287	1.5110
7	4.4418	-4.4418	-1.5110	2.3993
8	5.8983	-5.8983	-2.3993	3.5790
9	7.5602	-7.5602	-3.5790	5.0911
10	9.4277	-9.4277	-5.0911	6.9766
11	11.501	-11.501	-6.9766	9.2767
12	13.780	-13.780	-9.2767	12.033
13	16.264	-16.264	-12.033	15.285
14	18.954	-18.954	-15.285	19.076
15	21.851	-21.851	-19.076	23.446

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:01                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP  91
C U R R E N T   T I M E   I S   1.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.953	-24.953	-23.446	28.437
2	28.261	-28.261	-28.437	34.089
3	31.775	-31.775	-34.089	40.444
4	35.496	-35.496	-40.444	47.543
5	39.422	-39.422	-47.543	55.428
6	48.228	-48.228	-55.428	65.073
7	55.759	-55.759	-65.073	76.225
8	62.015	-62.015	-76.225	88.628
9	66.997	-66.997	-88.628	102.03
10	70.703	-70.703	-102.03	116.17
11	73.135	-73.135	-116.17	130.80
12	74.292	-74.292	-130.80	145.65
13	74.174	-74.174	-145.65	160.49
14	72.781	-72.781	-160.49	175.04
15	70.113	-70.113	-175.04	189.07
16	66.240	-66.240	-189.07	202.32
17	61.550	-61.550	-202.32	214.63
18	57.004	-57.004	-214.63	226.03
19	52.941	-52.941	-226.03	236.61
20	49.357	-49.357	-236.61	246.49
21	46.251	-46.251	-246.49	255.74
22	43.619	-43.619	-255.74	264.46
23	41.458	-41.458	-264.46	272.75
24	39.766	-39.766	-272.75	280.70
25	38.540	-38.540	-280.70	288.41
26	37.776	-37.776	-288.41	295.97
27	37.470	-37.470	-295.97	303.46
28	37.620	-37.620	-303.46	310.99
29	38.222	-38.222	-310.99	318.63
30	39.272	-39.272	-318.63	326.48
31	40.793	-40.793	-326.48	334.64
32	42.782	-42.782	-334.64	343.20
33	45.234	-45.234	-343.20	352.25
34	48.145	-48.145	-352.25	361.88
35	51.510	-51.510	-361.88	372.18
36	55.323	-55.323	-372.18	383.24
37	59.581	-59.581	-383.24	395.16
38	64.277	-64.277	-395.16	408.01
39	69.407	-69.407	-408.01	421.89
40	74.965	-74.965	-421.89	436.89
41	80.945	-80.945	-436.89	453.08
42	87.342	-87.342	-453.08	470.55
43	94.151	-94.151	-470.55	489.38
44	101.36	-101.36	-489.38	509.65
45	108.98	-108.98	-509.65	531.44
46	116.98	-116.98	-531.44	554.84
47	106.16	-106.16	-554.84	576.07
48	96.302	-96.302	-576.07	595.33
49	87.392	-87.392	-595.33	612.81
50	79.402	-79.402	-612.81	628.69
51	72.309	-72.309	-628.69	643.15
52	66.088	-66.088	-643.15	656.37
53	60.714	-60.714	-656.37	668.51
54	56.160	-56.160	-668.51	679.74
55	52.400	-52.400	-679.74	690.22
56	49.408	-49.408	-690.22	700.11
57	30.680	-30.680	-700.11	706.24
58	12.843	-12.843	-706.24	708.81
59	-4.1379	4.1379	-708.81	707.98
60	-20.301	20.301	-707.98	703.92
61	-35.681	35.681	-703.92	696.79
62	-50.315	50.315	-696.79	686.72
63	-64.239	64.239	-686.72	673.88
64	-77.487	77.487	-673.88	658.38
65	-90.095	90.095	-658.38	640.36
66	-102.10	102.10	-640.36	619.94
67	-113.52	113.52	-619.94	597.23
68	-124.41	124.41	-597.23	572.35
69	-134.78	134.78	-572.35	545.40
70	-144.69	144.69	-545.40	516.46

71	-153.92	153.92	-516.46	485.67
72	-161.08	161.08	-485.67	453.46
73	-166.32	166.32	-453.46	420.19
74	-169.73	169.73	-420.19	386.25
75	-171.44	171.44	-386.25	351.96
76	-171.53	171.53	-351.96	317.65
77	-170.10	170.10	-317.65	283.63
78	-166.94	166.94	-283.63	250.25
79	-161.95	161.95	-250.25	217.85
80	-155.22	155.22	-217.85	186.81
81	-146.98	146.98	-186.81	157.41
82	-137.54	137.54	-157.41	129.91
83	-126.91	126.91	-129.91	104.52
84	-115.31	115.31	-104.52	81.463
85	-102.79	102.79	-81.463	60.904
86	-89.377	89.377	-60.904	43.028
87	-75.073	75.073	-43.028	28.013
88	-59.901	59.901	-28.013	16.033
89	-43.877	43.877	-16.033	7.2574
90	-27.004	27.004	-7.2574	1.8566
91	-9.2836	9.2836	-1.8566	-2.05098E-11

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1600E+07  RIMNOR=0.3123E+08
            RENORM= 12.07     REMNOR=0.1185E-16  RATIO =0.2747E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 171.5     RMMAX = 708.8
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1600E+07  RDR   =0.3123E+08
            RATIO=0.2747E-02  RATIO= 0.000
            MAX UN=0.1201E-08  IEQ=   20 NODE    10 DOF   2  X-ROT. F
            MIN UN=-.5312     IEQ=  167 NODE    84 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1600E+07  RIMNOR=0.3123E+08
            RENORM=0.4272E-14  REMNOR=0.1385E-16  RATIO =0.5167E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 171.5     RMMAX = 708.8
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
            RDT   =0.1600E+07  RDR   =0.3123E+08
            RATIO=0.5167E-10  RATIO= 0.000
            MAX UN=0.2386E-07  IEQ=   33 NODE    17 DOF   1  Y-DISPL.F
            MIN UN=-.2401E-07  IEQ=   31 NODE    16 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
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|                                                                                                                                            |
|          ParatiePlus                                                                                                                                            |
|          Exe Time :28 January 2022  15:35:01                                                                                                                                            |
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New Project
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000) SUBINCREMENT 0001/00001

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F 02	X-ROT. F 04
1	2.0128465E-02	-1.4800260E-03
2	1.9832460E-02	-1.4800260E-03
3	1.9536455E-02	-1.4800242E-03
4	1.9240451E-02	-1.4800159E-03
5	1.8944449E-02	-1.4799930E-03
6	1.8648455E-02	-1.4799448E-03
7	1.8352474E-02	-1.4798577E-03
8	1.8056516E-02	-1.4797151E-03
9	1.7760593E-02	-1.4794974E-03
10	1.7464723E-02	-1.4791823E-03
11	1.7168928E-02	-1.4787443E-03
12	1.6873236E-02	-1.4781553E-03
13	1.6577678E-02	-1.4773840E-03
14	1.6282296E-02	-1.4763964E-03
15	1.5987137E-02	-1.4751555E-03
16	1.5692254E-02	-1.4736212E-03
17	1.5397633E-02	-1.4725549E-03
18	1.5103246E-02	-1.4712709E-03
19	1.4809141E-02	-1.4697414E-03
20	1.4515368E-02	-1.4679370E-03
21	1.4221986E-02	-1.4658267E-03
22	1.3929061E-02	-1.4633581E-03
23	1.3636672E-02	-1.4604637E-03
24	1.3344910E-02	-1.4570865E-03
25	1.3053874E-02	-1.4531799E-03
26	1.2763675E-02	-1.4487080E-03
27	1.2474430E-02	-1.4436452E-03
28	1.2186258E-02	-1.4379763E-03
29	1.1899282E-02	-1.4316968E-03
30	1.1613621E-02	-1.4248125E-03
31	1.1329396E-02	-1.4173398E-03
32	1.1046722E-02	-1.4093053E-03
33	1.0765709E-02	-1.4007440E-03
34	1.0486457E-02	-1.3916933E-03
35	1.0209063E-02	-1.3821886E-03
36	9.9336114E-03	-1.3722609E-03
37	9.6601851E-03	-1.3619375E-03
38	9.3888612E-03	-1.3512419E-03
39	9.1197119E-03	-1.3401935E-03
40	8.8528076E-03	-1.3288083E-03
41	8.5882116E-03	-1.3170979E-03
42	8.3259895E-03	-1.3050706E-03
43	8.0662042E-03	-1.2927306E-03
44	7.8089181E-03	-1.2800787E-03
45	7.5541950E-03	-1.2671117E-03
46	7.3020961E-03	-1.2538230E-03
47	7.0526880E-03	-1.2402020E-03
48	6.8060384E-03	-1.2262346E-03
49	6.5622184E-03	-1.2119028E-03
50	6.3213042E-03	-1.1971853E-03
51	6.0833730E-03	-1.1820565E-03
52	5.8485156E-03	-1.1664880E-03
53	5.6168140E-03	-1.1504469E-03
54	5.3883707E-03	-1.1338975E-03
55	5.1632915E-03	-1.1168005E-03
56	4.9416899E-03	-1.0991130E-03
57	4.7236887E-03	-1.0807887E-03
58	4.5094202E-03	-1.0617782E-03
59	4.2990267E-03	-1.0420286E-03
60	4.0926618E-03	-1.0214837E-03
61	3.8904902E-03	-1.0000842E-03
62	3.6926892E-03	-9.7776777E-04
63	3.4994435E-03	-9.5454605E-04
64	3.3109256E-03	-9.3050274E-04
65	3.1272921E-03	-9.0571378E-04
66	2.9486852E-03	-8.8024758E-04
67	2.7752341E-03	-8.5416523E-04
68	2.6070566E-03	-8.2752069E-04
69	2.4442602E-03	-8.0036100E-04
70	2.2869438E-03	-7.7272647E-04
71	2.1351990E-03	-7.4465091E-04
72	1.9891110E-03	-7.1616185E-04
73	1.8487559E-03	-6.8734777E-04
74	1.7141837E-03	-6.5835758E-04

75 1.5854152E-03 -6.2933317E-04
76 1.4624437E-03 -6.0040968E-04
77 1.3452360E-03 -5.7171578E-04
78 1.2337339E-03 -5.4337400E-04
79 1.1278551E-03 -5.1550098E-04
80 1.0274948E-03 -4.8820778E-04
81 9.3252633E-04 -4.6160017E-04
82 8.4280235E-04 -4.3577890E-04
83 7.5815595E-04 -4.1083994E-04
84 6.7840145E-04 -3.8687480E-04
85 6.0333529E-04 -3.6397074E-04
86 5.3273686E-04 -3.4221106E-04
87 4.6636933E-04 -3.2167434E-04
88 4.0398110E-04 -3.0242795E-04
89 3.4530874E-04 -2.8452284E-04
90 2.9007749E-04 -2.6799383E-04
91 2.3801516E-04 -2.5286368E-04
92 1.8883832E-04 -2.3913901E-04
93 1.4226622E-04 -2.2681441E-04
94 9.8020468E-05 -2.1587118E-04
95 5.5827877E-05 -2.0627601E-04
96 1.5423391E-05 -1.9798093E-04
97 -2.3447082E-05 -1.9092464E-04
98 -6.1024223E-05 -1.8503471E-04
99 -9.7533240E-05 -1.8022889E-04
100 -1.3318198E-04 -1.7641611E-04
101 -1.6815930E-04 -1.7349751E-04
102 -2.0263351E-04 -1.7136680E-04
103 -2.3675267E-04 -1.6991029E-04
104 -2.7063624E-04 -1.6900728E-04
105 -3.0438395E-04 -1.6852979E-04
106 -3.3806753E-04 -1.6834293E-04
107 -3.7172936E-04 -1.6830487E-04

1.000	1.000	52.83	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	11.10	-1.3637E-02	83.60	55.48	85.43	55.54	UL-RL 2.6488E+04	-4.400	0.000
1.000	1.000	55.48	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	11.63	-1.3345E-02	87.40	58.14	89.30	58.21	UL-RL 2.6488E+04	-4.600	0.000
1.000	1.000	58.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	12.16	-1.3054E-02	91.20	60.79	93.18	60.88	UL-RL 2.6488E+04	-4.800	0.000
1.000	1.000	60.79	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	12.69	-1.2764E-02	95.00	63.44	97.05	63.55	UL-RL 2.6488E+04	-5.000	0.000
1.000	1.000	63.44	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	13.22	-1.2474E-02	98.80	66.10	100.9	66.22	UL-RL 2.6488E+04	-5.200	0.000
1.000	1.000	66.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	13.75	-1.2186E-02	102.6	68.75	104.8	68.89	UL-RL 2.6488E+04	-5.400	0.000
1.000	1.000	68.75	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	14.28	-1.1899E-02	106.4	71.40	108.7	71.56	UL-RL 2.6488E+04	-5.600	0.000
1.000	1.000	71.40	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	14.81	-1.1614E-02	110.2	74.06	112.6	74.23	UL-RL 2.6488E+04	-5.800	0.000
1.000	1.000	74.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.41	-1.1329E-02	112.9	75.93	115.3	76.12	UL-RL 2.6488E+04	-6.000	1.127
1.000	1.000	77.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.07	-1.1047E-02	114.7	77.22	117.2	77.42	UL-RL 2.6488E+04	-6.200	3.114
1.000	1.000	80.33	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	16.72	-1.0766E-02	116.5	78.50	119.1	78.72	UL-RL 2.6488E+04	-6.400	5.101
1.000	1.000	83.60	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	17.37	-1.0486E-02	118.3	79.78	121.0	80.01	UL-RL 2.6488E+04	-6.600	7.089
1.000	1.000	86.87	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	18.03	-1.0209E-02	120.1	81.06	122.8	81.31	UL-RL 2.6488E+04	-6.800	9.076
1.000	1.000	90.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	18.68	-9.9336E-03	121.9	82.35	124.7	82.61	UL-RL 2.6488E+04	-7.000	11.06
1.000	1.000	93.41	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	19.34	-9.6602E-03	123.7	83.63	126.6	83.90	UL-RL 2.6488E+04	-7.200	13.05
1.000	1.000	96.68	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	19.99	-9.3889E-03	125.6	84.91	128.5	85.20	UL-RL 2.6488E+04	-7.400	15.04
1.000	1.000	99.94	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	20.64	-9.1197E-03	127.4	86.19	130.4	86.50	UL-RL 2.6488E+04	-7.600	17.03
1.000	1.000	103.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	21.30	-8.8528E-03	129.2	87.47	132.2	87.79	UL-RL 2.6488E+04	-7.800	19.01
1.000	1.000	106.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	21.95	-8.5882E-03	131.0	88.75	134.1	89.08	UL-RL 2.6488E+04	-8.000	21.00
1.000	1.000	109.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.60	-8.3260E-03	132.8	90.02	136.0	90.38	UL-RL 2.6488E+04	-8.200	22.99
1.000	1.000	113.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.26	-8.0662E-03	134.6	91.30	137.9	91.67	UL-RL 2.6488E+04	-8.400	24.97
1.000	1.000	116.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.91	-7.8089E-03	136.4	92.58	139.7	92.96	UL-RL 2.6488E+04	-8.600	26.96
1.000	1.000	119.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	24.56	-7.5542E-03	138.3	93.85	141.6	94.25	UL-RL 2.6488E+04	-8.800	28.95
1.000	1.000	122.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	25.23	-7.3021E-03	140.1	95.21	143.7	95.67	UL-RL 2.6488E+04	-9.000	30.94
1.000	1.000	126.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	25.90	-7.0527E-03	141.9	96.57	145.7	97.10	UL-RL 2.6488E+04	-9.200	32.92
1.000	1.000	129.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	26.57	-6.8060E-03	143.7	97.93	147.8	98.52	UL-RL 2.6488E+04	-9.400	34.91
1.000	1.000	132.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	27.24	-6.5622E-03	145.5	99.29	149.9	99.94	UL-RL 2.6488E+04	-9.600	36.90
1.000	1.000	136.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	27.91	-6.3213E-03	147.3	100.6	151.9	101.4	UL-RL 2.6488E+04	-9.800	38.89
1.000	1.000	139.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	28.57	-6.0834E-03	149.1	102.0	154.0	102.8	UL-RL 2.6488E+04	-10.000	40.87
1.000	1.000	142.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	29.24	-5.8485E-03	150.9	103.3	156.0	104.2	UL-RL 2.6488E+04	-10.200	42.86
1.000	1.000	146.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	29.91	-5.6168E-03	152.8	104.7	158.1	105.6	UL-RL	2.6488E+04	-10.40	44.85
1.000	1.000	149.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.57	-5.3884E-03	154.6	106.0	160.1	107.0	UL-RL	2.6488E+04	-10.60	46.83
1.000	1.000	152.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.24	-5.1633E-03	156.4	107.4	162.1	108.4	UL-RL	2.6488E+04	-10.80	48.82
1.000	1.000	156.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	31.90	-4.9417E-03	158.2	108.7	164.1	109.8	UL-RL	2.6488E+04	-11.00	50.81
1.000	1.000	159.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	32.57	-4.7237E-03	160.0	110.0	166.2	111.2	UL-RL	2.6488E+04	-11.20	52.80
1.000	1.000	162.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	33.23	-4.5094E-03	161.8	111.4	168.2	112.6	UL-RL	2.6488E+04	-11.40	54.78
1.000	1.000	166.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	33.90	-4.2990E-03	163.6	112.7	170.2	113.9	UL-RL	2.6488E+04	-11.60	56.77
1.000	1.000	169.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	34.56	-4.0927E-03	165.4	114.0	172.2	115.3	UL-RL	2.6488E+04	-11.80	58.76
1.000	1.000	172.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	35.22	-3.8905E-03	167.3	115.4	174.2	116.7	UL-RL	2.6488E+04	-12.00	60.75
1.000	1.000	176.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	29.14	-3.6927E-03	169.2	82.95	176.3	88.20	UL-RL	9.4545E+04	-12.20	62.73
1.000	1.000	145.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.78	-3.4994E-03	171.3	84.16	178.6	89.21	UL-RL	9.4545E+04	-12.40	64.72
1.000	1.000	148.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	30.42	-3.3109E-03	173.4	85.38	180.9	90.22	UL-RL	9.4545E+04	-12.60	66.71
1.000	1.000	152.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	31.06	-3.1273E-03	175.5	86.59	183.2	91.23	UL-RL	9.4545E+04	-12.80	68.70
1.000	1.000	155.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	31.70	-2.9487E-03	177.6	87.80	185.5	92.24	UL-RL	9.4545E+04	-13.00	70.68
1.000	1.000	158.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	32.34	-2.7752E-03	179.7	89.01	187.8	93.25	UL-RL	9.4545E+04	-13.20	72.67
1.000	1.000	161.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	32.98	-2.6071E-03	181.9	90.22	190.1	94.27	UL-RL	9.4545E+04	-13.40	74.66
1.000	1.000	164.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	33.61	-2.4443E-03	184.0	91.43	192.4	95.28	UL-RL	9.4545E+04	-13.60	76.64
1.000	1.000	168.1	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	34.25	-2.2869E-03	186.1	92.64	194.6	96.29	UL-RL	9.4545E+04	-13.80	78.63
1.000	1.000	171.3	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	34.89	-2.1352E-03	188.2	93.85	196.9	97.30	UL-RL	9.4545E+04	-14.00	80.62
1.000	1.000	174.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	22.10	-1.9891E-03	190.5	27.88	199.3	98.40	UL-RL	1.2392E+05	-14.20	82.61
1.000	1.000	110.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	22.75	-1.8488E-03	193.0	29.14	202.0	99.61	UL-RL	1.2392E+05	-14.40	84.59
1.000	1.000	113.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	23.40	-1.7142E-03	195.5	30.41	204.7	100.8	UL-RL	1.2392E+05	-14.60	86.58
1.000	1.000	117.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	24.05	-1.5854E-03	198.0	31.67	207.3	102.0	UL-RL	1.2392E+05	-14.80	88.57
1.000	1.000	120.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	24.70	-1.4624E-03	200.5	32.94	210.0	103.3	UL-RL	1.2392E+05	-15.00	90.56
1.000	1.000	123.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	25.35	-1.3452E-03	203.0	34.20	212.6	104.5	UL-RL	1.2392E+05	-15.20	92.54
1.000	1.000	126.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	26.00	-1.2337E-03	205.5	35.47	215.3	105.7	UL-RL	1.2392E+05	-15.40	94.53
1.000	1.000	130.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.65	-1.1279E-03	208.1	36.73	218.0	106.9	UL-RL	1.2392E+05	-15.60	96.52
1.000	1.000	133.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.30	-1.0275E-03	210.6	38.00	220.6	108.1	UL-RL	1.2392E+05	-15.80	98.50
1.000	1.000	136.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	27.95	-9.3253E-04	213.1	39.27	223.3	109.3	UL-RL	1.2392E+05	-16.00	100.5
1.000	1.000	139.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.60	-8.4280E-04	215.6	40.54	225.9	110.6	UL-RL	1.2392E+05	-16.20	102.5
1.000	1.000	143.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.25	-7.5816E-04	218.1	41.80	228.5	111.8	UL-RL	1.2392E+05	-16.40	104.5
1.000	1.000	146.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	29.91	-6.7840E-04	220.6	43.07	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	149.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	30.55	-6.0334E-04	223.1	44.30	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	152.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	31.44	-5.3274E-04	225.7	46.77	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	157.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	33.73	-4.6637E-04	228.2	56.22	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	168.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	35.92	-4.0398E-04	230.7	65.19	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	179.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.02	-3.4531E-04	233.2	73.70	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	190.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.03	-2.9008E-04	235.7	81.78	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	200.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	41.97	-2.3802E-04	238.2	89.46	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	209.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	43.83	-1.8884E-04	240.7	96.79	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	219.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	45.63	-1.4227E-04	243.2	103.8	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	228.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	47.37	-9.8020E-05	245.8	110.5	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	236.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	49.06	-5.5828E-05	248.3	117.0	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	245.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	50.53	-1.5423E-05	250.8	122.3	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	252.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	51.74	2.3447E-05	253.3	126.4	263.2	130.3	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	258.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	52.93	6.1024E-05	255.8	130.4	265.6	132.5	UL-RL	1.2392E+05	-19.40	134.3
1.000	1.000	264.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	53.94	9.7533E-05	258.3	133.4	268.1	135.1	UL-RL	1.2392E+05	-19.60	136.3
1.000	1.000	269.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	54.90	1.3318E-04	260.8	136.2	270.6	137.7	UL-RL	1.2392E+05	-19.80	138.3
1.000	1.000	274.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	55.85	1.6816E-04	263.3	139.0	273.0	140.3	UL-RL	1.2392E+05	-20.00	140.2
1.000	1.000	279.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	56.80	2.0263E-04	265.9	141.8	275.5	142.9	UL-RL	1.2392E+05	-20.20	142.2
1.000	1.000	284.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	57.74	2.3675E-04	268.4	144.5	278.0	145.6	UL-RL	1.2392E+05	-20.40	144.2
1.000	1.000	288.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	58.66	2.7064E-04	270.9	147.1	280.4	148.2	UL-RL	1.2392E+05	-20.60	146.2
1.000	1.000	293.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	59.59	3.0438E-04	273.4	149.8	282.9	150.8	UL-RL	1.2392E+05	-20.80	148.2
1.000	1.000	297.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	60.51	3.3807E-04	275.9	152.4	285.4	153.4	UL-RL	1.2392E+05	-21.00	150.2
1.000	1.000	302.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.72	3.7173E-04	278.4	155.0	287.8	156.1	UL-RL	1.2392E+05	-21.20	152.2
1.000	1.000	307.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 2.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available	--			
21 D	1.170	1.4222E-02	0.000	5.849	0.000	6.171	UL-RL 2.1501E+04		-4.000	0.000	
1.000	1.000	5.849	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.978	1.3929E-02	3.800	14.89	3.800	15.21	UL-RL 2.1501E+04		-4.200	0.000	
1.000	1.000	14.89	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.787	1.3637E-02	7.600	23.93	7.600	24.26	UL-RL 2.1501E+04		-4.400	0.000	
1.000	1.000	23.93	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	6.595	1.3345E-02	11.40	32.97	11.40	33.30	UL-RL 2.1501E+04		-4.600	0.000	
1.000	1.000	32.97	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	8.403	1.3054E-02	15.20	42.02	15.20	42.35	UL-RL 2.1501E+04		-4.800	0.000	
1.000	1.000	42.02	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	10.21	1.2764E-02	19.00	51.06	19.00	51.39	UL-RL 2.1501E+04		-5.000	0.000	
1.000	1.000	51.06	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	12.02	1.2474E-02	22.80	60.10	22.80	60.43	UL-RL 2.1501E+04		-5.200	0.000	
1.000	1.000	60.10	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	13.83	1.2186E-02	26.60	69.14	26.60	69.48	UL-RL 2.1501E+04		-5.400	0.000	
1.000	1.000	69.14	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	15.64	1.1899E-02	30.40	78.18	30.40	78.52	UL-RL 2.1501E+04	-5.600	0.000
1.000	1.000	78.18	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	17.45	1.1614E-02	34.20	87.23	34.20	87.57	UL-RL 2.1501E+04	-5.800	0.000
1.000	1.000	87.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.25	1.1329E-02	38.00	96.27	38.00	96.61	UL-RL 2.1501E+04	-6.000	0.000
1.000	1.000	96.27	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.73	1.1047E-02	40.59	102.4	40.59	102.8	UL-RL 2.1501E+04	-6.200	1.211
1.000	1.000	103.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.24	1.0766E-02	42.38	103.0	42.38	103.3	UL-RL 2.1501E+04	-6.400	3.223
1.000	1.000	106.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	21.41	1.0486E-02	44.16	101.8	44.16	102.2	UL-RL 2.1501E+04	-6.600	5.236
1.000	1.000	107.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	21.59	1.0209E-02	45.95	100.7	45.95	101.1	UL-RL 2.1501E+04	-6.800	7.249
1.000	1.000	108.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	21.77	9.9336E-03	47.74	99.59	47.74	99.94	UL-RL 2.1501E+04	-7.000	9.261
1.000	1.000	108.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	21.95	9.6602E-03	49.53	98.49	49.53	98.84	UL-RL 2.1501E+04	-7.200	11.27
1.000	1.000	109.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.14	9.3889E-03	51.31	97.40	51.31	97.75	UL-RL 2.1501E+04	-7.400	13.29
1.000	1.000	110.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	22.32	9.1197E-03	53.10	96.32	53.10	96.68	UL-RL 2.1501E+04	-7.600	15.30
1.000	1.000	111.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	22.51	8.8528E-03	54.89	95.26	54.89	95.62	UL-RL 2.1501E+04	-7.800	17.31
1.000	1.000	112.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	22.71	8.5882E-03	56.68	94.22	56.68	94.58	UL-RL 2.1501E+04	-8.000	19.32
1.000	1.000	113.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	22.91	8.3260E-03	58.46	93.19	58.46	93.55	UL-RL 2.1501E+04	-8.200	21.34
1.000	1.000	114.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	23.11	8.0662E-03	60.25	92.18	60.25	92.54	UL-RL 2.1501E+04	-8.400	23.35
1.000	1.000	115.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	23.31	7.8089E-03	62.04	91.18	62.04	91.55	UL-RL 2.1501E+04	-8.600	25.36
1.000	1.000	116.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	23.52	7.5542E-03	63.82	90.21	63.82	90.57	UL-RL 2.1501E+04	-8.800	27.38
1.000	1.000	117.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	23.73	7.3021E-03	65.61	89.25	65.61	89.62	UL-RL 2.1501E+04	-9.000	29.39
1.000	1.000	118.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	23.94	7.0527E-03	67.40	88.31	67.40	88.68	UL-RL 2.1501E+04	-9.200	31.40
1.000	1.000	119.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	24.16	6.8060E-03	69.19	87.39	69.19	87.76	UL-RL 2.1501E+04	-9.400	33.41
1.000	1.000	120.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	24.38	6.5622E-03	70.97	86.49	70.97	86.86	UL-RL 2.1501E+04	-9.600	35.43
1.000	1.000	121.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	24.61	6.3213E-03	72.76	85.61	72.76	85.98	UL-RL 2.1501E+04	-9.800	37.44
1.000	1.000	123.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	24.84	6.0834E-03	74.55	84.76	74.55	85.12	UL-RL 2.1501E+04	-10.00	39.45
1.000	1.000	124.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	25.08	5.8485E-03	76.34	83.92	76.34	84.28	UL-RL 2.1501E+04	-10.20	41.46
1.000	1.000	125.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	25.32	5.6168E-03	78.12	83.11	78.12	83.47	UL-RL 2.1501E+04	-10.40	43.48
1.000	1.000	126.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	25.56	5.3884E-03	79.91	82.32	79.91	82.68	UL-RL 2.1501E+04	-10.60	45.49
1.000	1.000	127.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	25.81	5.1633E-03	81.70	81.55	81.70	81.91	UL-RL 2.1501E+04	-10.80	47.50
1.000	1.000	129.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	26.07	4.9417E-03	83.48	80.81	83.48	81.17	UL-RL 2.1501E+04	-11.00	49.52
1.000	1.000	130.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	26.33	4.7237E-03	85.27	80.10	85.27	80.45	UL-RL 2.1501E+04	-11.20	51.53
1.000	1.000	131.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	26.59	4.5094E-03	87.06	79.41	87.06	79.76	UL-RL 2.1501E+04	-11.40	53.54
1.000	1.000	133.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	26.86	4.2990E-03	88.85	78.75	88.85	79.10	UL-RL 2.1501E+04	-11.60	55.55
1.000	1.000	134.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	27.14	4.0927E-03	90.63	78.12	90.63	78.46	UL-RL	2.1501E+04	-11.80	57.57	
1.000	1.000	135.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	27.42	3.8905E-03	92.42	77.52	92.42	77.86	UL-RL	2.1501E+04	-12.00	59.58	
1.000	1.000	137.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	39.81	3.6927E-03	94.33	137.4	94.33	138.5	UL-RL	7.1008E+04	-12.20	61.59	
1.000	1.000	199.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	39.50	3.4994E-03	96.42	133.9	96.42	135.0	UL-RL	7.1008E+04	-12.40	63.60	
1.000	1.000	197.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	39.21	3.3109E-03	98.50	130.4	98.50	131.5	UL-RL	7.1008E+04	-12.60	65.62	
1.000	1.000	196.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	38.94	3.1273E-03	100.6	127.1	100.6	128.1	UL-RL	7.1008E+04	-12.80	67.63	
1.000	1.000	194.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	38.70	2.9487E-03	102.7	123.9	102.7	124.9	UL-RL	7.1008E+04	-13.00	69.64	
1.000	1.000	193.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	38.48	2.7752E-03	104.8	120.8	104.8	121.8	UL-RL	7.1008E+04	-13.20	71.65	
1.000	1.000	192.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	38.29	2.6071E-03	106.9	117.8	106.9	118.8	UL-RL	7.1008E+04	-13.40	73.67	
1.000	1.000	191.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	38.13	2.4443E-03	108.9	114.9	108.9	115.9	UL-RL	7.1008E+04	-13.60	75.68	
1.000	1.000	190.6	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	37.98	2.2869E-03	111.0	112.2	111.0	113.2	UL-RL	7.1008E+04	-13.80	77.69	
1.000	1.000	189.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	37.87	2.1352E-03	113.1	109.6	113.1	110.6	UL-RL	7.1008E+04	-14.00	79.71	
1.000	1.000	189.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	40.69	1.9891E-03	115.4	121.7	115.4	123.0	UL-RL	9.3069E+04	-14.20	81.72	
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	40.46	1.8488E-03	117.8	118.6	117.8	119.8	UL-RL	9.3069E+04	-14.40	83.73	
1.000	1.000	202.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	40.27	1.7142E-03	120.3	115.6	120.3	116.8	UL-RL	9.3069E+04	-14.60	85.74	
1.000	1.000	201.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	40.11	1.5854E-03	122.8	112.8	122.8	114.0	UL-RL	9.3069E+04	-14.80	87.76	
1.000	1.000	200.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	40.00	1.4624E-03	125.3	110.2	125.3	111.4	UL-RL	9.3069E+04	-15.00	89.77	
1.000	1.000	200.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
77 D	39.91	1.3452E-03	127.8	107.8	127.8	109.0	UL-RL	9.3069E+04	-15.20	91.78	
1.000	1.000	199.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
78 D	39.87	1.2337E-03	130.3	105.5	130.3	106.7	UL-RL	9.3069E+04	-15.40	93.79	
1.000	1.000	199.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
79 D	39.85	1.1279E-03	132.8	103.5	132.8	104.6	UL-RL	9.3069E+04	-15.60	95.81	
1.000	1.000	199.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
80 D	39.88	1.0275E-03	135.3	101.6	135.3	102.7	UL-RL	9.3069E+04	-15.80	97.82	
1.000	1.000	199.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
81 D	39.93	9.3253E-04	137.7	99.83	137.7	101.0	UL-RL	9.3069E+04	-16.00	99.83	
1.000	1.000	199.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
82 D	40.02	8.4280E-04	140.2	98.25	140.2	99.39	UL-RL	9.3069E+04	-16.20	101.8	
1.000	1.000	200.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
83 D	40.14	7.5816E-04	142.7	96.84	142.7	97.97	UL-RL	9.3069E+04	-16.40	103.9	
1.000	1.000	200.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
84 D	40.29	6.7840E-04	145.2	95.57	145.2	96.70	UL-RL	9.3069E+04	-16.60	105.9	
1.000	1.000	201.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
85 D	40.47	6.0334E-04	147.7	94.46	147.7	95.58	UL-RL	9.3069E+04	-16.80	107.9	
1.000	1.000	202.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
86 D	40.67	5.3274E-04	150.2	93.48	150.2	94.59	UL-RL	9.3069E+04	-17.00	109.9	
1.000	1.000	203.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
87 D	40.91	4.6637E-04	152.7	92.63	152.7	93.74	UL-RL	9.3069E+04	-17.20	111.9	
1.000	1.000	204.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
88 D	41.17	4.0398E-04	155.2	91.90	155.2	93.01	UL-RL	9.3069E+04	-17.40	113.9	
1.000	1.000	205.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
89 D	41.45	3.4531E-04	157.6	91.30	157.6	92.39	UL-RL	9.3069E+04	-17.60	115.9	
1.000	1.000	207.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
90 D	41.75	2.9008E-04	160.1	90.79	160.1	91.89	UL-RL	9.3069E+04	-17.80	117.9	

1.000	1.000	208.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	42.07	2.3802E-04	162.6	90.39	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	210.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	42.41	1.8884E-04	165.1	90.08	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	212.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	42.49	1.4227E-04	167.6	88.44	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	212.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	42.40	9.8020E-05	170.1	85.98	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.34	5.5828E-05	172.6	83.68	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	211.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	42.31	1.5423E-05	175.1	81.52	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	211.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	42.30	-2.3447E-05	177.5	79.48	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	211.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	42.32	-6.1024E-05	180.0	77.54	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	211.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	42.35	-9.7533E-05	182.5	75.68	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	211.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	42.39	-1.3318E-04	185.0	73.89	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	212.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	42.45	-1.6816E-04	187.5	72.15	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	212.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	42.51	-2.0263E-04	190.0	70.46	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	212.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	42.58	-2.3675E-04	192.5	68.78	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	212.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	42.65	-2.7064E-04	195.0	67.13	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	213.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	42.73	-3.0438E-04	197.4	65.49	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	213.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	42.80	-3.3807E-04	199.9	63.86	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	214.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.44	-3.7173E-04	202.4	62.22	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	214.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:01          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	9.83966E-09	-9.83966E-09	9.82749E-10	-4.10599E-11
2	0.24077	-0.24077	-2.52824E-10	4.81531E-02
3	0.68438	-0.68438	-4.81531E-02	0.18503
4	1.3307	-1.3307	-0.18503	0.45116
5	2.1796	-2.1796	-0.45116	0.88709
6	3.2312	-3.2312	-0.88709	1.5333
7	4.4855	-4.4855	-1.5333	2.4304
8	5.9423	-5.9423	-2.4304	3.6189
9	7.6019	-7.6019	-3.6189	5.1393
10	9.4640	-9.4640	-5.1393	7.0321
11	11.529	-11.529	-7.0321	9.3378
12	13.796	-13.796	-9.3378	12.097
13	16.266	-16.266	-12.097	15.350
14	18.939	-18.939	-15.350	19.138
15	21.815	-21.815	-19.138	23.501

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:01           |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

WallElement_New_75260 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	24.893	-24.893	-23.501	28.480
2	28.173	-28.173	-28.480	34.114
3	31.657	-31.657	-34.114	40.446
4	35.343	-35.343	-40.446	47.514
5	39.231	-39.231	-47.514	55.360
6	48.096	-48.096	-55.360	64.980
7	55.684	-55.684	-64.980	76.116
8	61.994	-61.994	-76.116	88.515
9	67.026	-67.026	-88.515	101.92
10	70.781	-70.781	-101.92	116.08
11	73.258	-73.258	-116.08	130.73
12	74.457	-74.457	-130.73	145.62
13	74.379	-74.379	-145.62	160.50
14	73.022	-73.022	-160.50	175.10
15	70.388	-70.388	-175.10	189.18
16	66.547	-66.547	-189.18	202.49
17	61.885	-61.885	-202.49	214.86
18	57.366	-57.366	-214.86	226.34
19	53.326	-53.326	-226.34	237.00
20	49.763	-49.763	-237.00	246.95
21	46.674	-46.674	-246.95	256.29
22	44.057	-44.057	-256.29	265.10
23	41.909	-41.909	-265.10	273.48
24	40.228	-40.228	-273.48	281.53
25	39.009	-39.009	-281.53	289.33
26	38.249	-38.249	-289.33	296.98
27	37.946	-37.946	-296.98	304.57
28	38.095	-38.095	-304.57	312.19
29	38.694	-38.694	-312.19	319.93
30	39.737	-39.737	-319.93	327.87
31	41.240	-41.240	-327.87	336.12
32	43.197	-43.197	-336.12	344.76
33	45.605	-45.605	-344.76	353.88
34	48.458	-48.458	-353.88	363.57
35	51.753	-51.753	-363.57	373.92
36	55.485	-55.485	-373.92	385.02
37	59.648	-59.648	-385.02	396.95
38	64.238	-64.238	-396.95	409.80
39	69.249	-69.249	-409.80	423.65
40	74.676	-74.676	-423.65	438.58
41	80.514	-80.514	-438.58	454.69
42	86.757	-86.757	-454.69	472.04
43	93.399	-93.399	-472.04	490.72
44	100.43	-100.43	-490.72	510.80
45	107.86	-107.86	-510.80	532.38
46	115.66	-115.66	-532.38	555.51
47	104.99	-104.99	-555.51	576.50
48	95.268	-95.268	-576.50	595.56
49	86.477	-86.477	-595.56	612.85
50	78.592	-78.592	-612.85	628.57
51	71.588	-71.588	-628.57	642.89
52	65.440	-65.440	-642.89	655.98
53	60.124	-60.124	-655.98	668.00
54	55.613	-55.613	-668.00	679.12
55	51.882	-51.882	-679.12	689.50
56	48.905	-48.905	-689.50	699.28
57	30.317	-30.317	-699.28	705.35
58	12.606	-12.606	-705.35	707.87
59	-4.2651	4.2651	-707.87	707.01
60	-20.332	20.332	-707.01	702.95
61	-35.630	35.630	-702.95	695.82
62	-50.194	50.194	-695.82	685.78
63	-64.061	64.061	-685.78	672.97
64	-77.265	77.265	-672.97	657.52
65	-89.840	89.840	-657.52	639.55
66	-101.82	101.82	-639.55	619.19
67	-113.24	113.24	-619.19	596.54
68	-124.12	124.12	-596.54	571.71
69	-134.51	134.51	-571.71	544.81
70	-144.43	144.43	-544.81	515.93

71	-153.66	153.66	-515.93	485.20
72	-160.84	160.84	-485.20	453.03
73	-166.09	166.09	-453.03	419.81
74	-169.52	169.52	-419.81	385.91
75	-171.23	171.23	-385.91	351.66
76	-171.34	171.34	-351.66	317.39
77	-169.92	169.92	-317.39	283.41
78	-166.78	166.78	-283.41	250.05
79	-161.80	161.80	-250.05	217.69
80	-155.08	155.08	-217.69	186.68
81	-146.86	146.86	-186.68	157.30
82	-137.43	137.43	-157.30	129.82
83	-126.82	126.82	-129.82	104.46
84	-115.23	115.23	-104.46	81.410
85	-102.72	102.72	-81.410	60.866
86	-89.318	89.318	-60.866	43.002
87	-75.025	75.025	-43.002	27.996
88	-59.864	59.864	-27.996	16.023
89	-43.851	43.851	-16.023	7.2533
90	-26.988	26.988	-7.2533	1.8556
91	-9.2785	9.2785	-1.8556	-1.51665E-11

```

ITER      0  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM= 65.36      REMNOR=0.1385E-16  RATIO =0.6403E-02  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.6403E-02  RATIO= 0.000
             MAX UN= 3.017      IEQ=   63 NODE      32 DOF   1  Y-DISPL.F
             MIN UN=-.1020E-07  IEQ=   83 NODE      42 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM= 22.23      REMNOR=0.1596E-16  RATIO =0.3735E-02  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.3735E-02  RATIO= 0.000
             MAX UN= 1.015      IEQ=    3 NODE      2 DOF   1  Y-DISPL.F
             MIN UN=-.5975E-08  IEQ=  119 NODE      60 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      3  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM= 52.88      REMNOR=0.1755E-16  RATIO =0.5760E-02  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.5760E-02  RATIO= 0.000
             MAX UN= 2.847      IEQ=   89 NODE      45 DOF   1  Y-DISPL.F
             MIN UN=-.4047E-01  IEQ=  197 NODE      99 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM= 14.02      REMNOR=0.1948E-16  RATIO =0.2965E-02  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.2965E-02  RATIO= 0.000
             MAX UN= 1.757      IEQ=  139 NODE      70 DOF   1  Y-DISPL.F
             MIN UN=-.3432      IEQ=  207 NODE      104 DOF  1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      5  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM=0.3375      REMNOR=0.1443E-16  RATIO =0.4601E-03  TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.4601E-03  RATIO= 0.000
             MAX UN=0.4958      IEQ=  149 NODE      75 DOF   1  Y-DISPL.F
             MIN UN=-.2786E-07  IEQ=   47 NODE      24 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.1594E+07  RIMNOR=0.3125E+08
             RENORM=0.1534E-04  REMNOR=0.1235E-16  RATIO =0.3102E-05  TOLER =0.1000E-03  CONVERGED !
             RFMAX = 171.3      RMMAX = 707.9
             RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
             RDT  =0.1594E+07  RDR   =0.3125E+08
             RATIO=0.3102E-05  RATIO= 0.000
             MAX UN=0.3833E-02  IEQ=  157 NODE      79 DOF   1  Y-DISPL.F
             MIN UN=-.8024E-03  IEQ=  193 NODE      97 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|           PARATIEPLUS(TM)   NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021* |
|                                                                           |
|                               ParatiePlus                               |
|                               Exe Time :28 January 2022  15:35:01      |
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New Project
SOLUTION REACHED USING      6 ITERATIONS ON    40

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P R I N T   O U T   F O R   T I M E   S T E P   3   ( AT TIME    3.000    ) SUBINCREMENT 00001/00001

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PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

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	Y-DISPL.F 02	X-ROT. F 04
1	2.4272150E-02	-1.8606233E-03
2	2.3900025E-02	-1.8606199E-03
3	2.3527903E-02	-1.8606018E-03
4	2.3155787E-02	-1.8605513E-03
5	2.2783686E-02	-1.8604478E-03
6	2.2411613E-02	-1.8602678E-03
7	2.2039585E-02	-1.8599849E-03
8	2.1667627E-02	-1.8595698E-03
9	2.1295768E-02	-1.8589902E-03
10	2.0924045E-02	-1.8582112E-03
11	2.0552500E-02	-1.8571945E-03
12	2.0181185E-02	-1.8558993E-03
13	1.9810162E-02	-1.8542817E-03
14	1.9439497E-02	-1.8522950E-03
15	1.9069272E-02	-1.8498894E-03
16	1.8699573E-02	-1.8470125E-03
17	1.8330359E-02	-1.8450719E-03
18	1.7961567E-02	-1.8427974E-03
19	1.7593265E-02	-1.8401540E-03
20	1.7225532E-02	-1.8371050E-03
21	1.6858453E-02	-1.8336118E-03
22	1.6492121E-02	-1.8296176E-03
23	1.6126644E-02	-1.8250535E-03
24	1.5762143E-02	-1.8198610E-03
25	1.5398746E-02	-1.8139900E-03
26	1.5036595E-02	-1.8073984E-03
27	1.4675837E-02	-1.8000527E-03
28	1.4316626E-02	-1.7919275E-03
29	1.3959121E-02	-1.7830058E-03
30	1.3603479E-02	-1.7732788E-03
31	1.3249863E-02	-1.7627461E-03
32	1.2898434E-02	-1.7514151E-03
33	1.2549349E-02	-1.7392997E-03
34	1.2202765E-02	-1.7264171E-03
35	1.1858834E-02	-1.7127877E-03
36	1.1517700E-02	-1.6984343E-03
37	1.1179507E-02	-1.6833827E-03
38	1.0844392E-02	-1.6676616E-03
39	1.0512485E-02	-1.6513024E-03
40	1.0183913E-02	-1.6343383E-03
41	9.8587894E-03	-1.6168003E-03
42	9.5372290E-03	-1.5987153E-03
43	9.2193383E-03	-1.5801056E-03
44	8.9052205E-03	-1.5609891E-03
45	8.5949771E-03	-1.5413797E-03
46	8.2887024E-03	-1.5212865E-03
47	7.9864944E-03	-1.5007147E-03
48	7.6884484E-03	-1.4796652E-03
49	7.3946603E-03	-1.4581348E-03
50	7.1052285E-03	-1.4361163E-03
51	6.8202486E-03	-1.4135980E-03
52	6.5398291E-03	-1.3905653E-03
53	6.2640637E-03	-1.3669979E-03
54	5.9930671E-03	-1.3428730E-03
55	5.7269535E-03	-1.3181636E-03
56	5.4658427E-03	-1.2928390E-03
57	5.2098612E-03	-1.2668645E-03
58	4.9591428E-03	-1.2402020E-03
59	4.7138291E-03	-1.2128097E-03
60	4.4740705E-03	-1.1846424E-03
61	4.2400270E-03	-1.1556511E-03
62	4.0118685E-03	-1.1257837E-03
63	3.7897702E-03	-1.0950669E-03
64	3.5738915E-03	-1.0636033E-03
65	3.3643724E-03	-1.0314868E-03
66	3.1613346E-03	-9.9880293E-04
67	2.9648839E-03	-9.6562873E-04
68	2.7751112E-03	-9.3203339E-04
69	2.5920945E-03	-8.9807830E-04
70	2.4159003E-03	-8.6381734E-04
71	2.2465849E-03	-8.2929719E-04
72	2.0841960E-03	-7.9455756E-04
73	1.9287698E-03	-7.5969913E-04
74	1.7803136E-03	-7.2488295E-04

75 1.6388036E-03 -6.9026231E-04
76 1.5041859E-03 -6.5598308E-04
77 1.3763783E-03 -6.2218409E-04
78 1.2552714E-03 -5.8899738E-04
79 1.1407302E-03 -5.5654761E-04
80 1.0325955E-03 -5.2495151E-04
81 9.3068544E-04 -4.9431804E-04
82 8.3479733E-04 -4.6474854E-04
83 7.4470882E-04 -4.3633722E-04
84 6.6017939E-04 -4.0917178E-04
85 5.8095161E-04 -3.8333382E-04
86 5.0675229E-04 -3.5889944E-04
87 4.3729360E-04 -3.3593859E-04
88 3.7227478E-04 -3.1450883E-04
89 3.1138531E-04 -2.9465031E-04
90 2.5430554E-04 -2.7638607E-04
91 2.0072102E-04 -2.5972663E-04
92 1.5030834E-04 -2.4466551E-04
93 1.0274952E-04 -2.3118381E-04
94 5.7731691E-05 -2.1924893E-04
95 1.4949992E-05 -2.0881335E-04
96 -2.5889441E-05 -1.9981465E-04
97 -6.5066596E-05 -1.9217688E-04
98 -1.0284515E-04 -1.8581353E-04
99 -1.3947065E-04 -1.8062986E-04
100 -1.7516892E-04 -1.7652348E-04
101 -2.1014454E-04 -1.7338455E-04
102 -2.4457943E-04 -1.7109600E-04
103 -2.7863305E-04 -1.6953351E-04
104 -3.1243420E-04 -1.6856594E-04
105 -3.4608986E-04 -1.6805491E-04
106 -3.7967692E-04 -1.6785517E-04
107 -4.1324086E-04 -1.6781453E-04

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|               PARATIEPLUS(TM)   NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021* |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS 3.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-2.4272E-02	0.000	0.000	0.4062	4.021	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2022	-2.3900E-02	3.800	1.011	4.252	6.027	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	1.011	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.4043	-2.3528E-02	7.600	2.022	8.101	8.027	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	2.022	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.6065	-2.3156E-02	11.40	3.032	11.95	10.02	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	3.032	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	0.8086	-2.2784E-02	15.20	4.043	15.81	12.01	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	4.043	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.011	-2.2412E-02	19.00	5.054	19.66	13.99	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	5.054	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.213	-2.2040E-02	22.80	6.065	23.52	15.96	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	6.065	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.415	-2.1668E-02	26.60	7.076	27.38	17.93	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	7.076	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	1.617	-2.1296E-02	30.40	8.086	31.24	19.89	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	8.086	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	1.819	-2.0924E-02	34.20	9.097	35.10	21.85	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	9.097	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.022	-2.0552E-02	38.00	10.11	38.97	23.80	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	10.11	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.224	-2.0181E-02	41.80	11.12	42.83	25.75	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	11.12	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	2.426	-1.9810E-02	45.60	12.13	46.70	27.69	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	12.13	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	2.628	-1.9439E-02	49.40	13.14	50.57	29.63	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	13.14	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	2.830	-1.9069E-02	53.20	14.15	54.44	31.56	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	14.15	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	3.032	-1.8700E-02	57.00	15.16	58.31	33.48	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	15.16	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	3.235	-1.8330E-02	60.80	16.17	62.18	35.40	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	16.17	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	3.437	-1.7962E-02	64.60	17.18	66.06	37.32	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	17.18	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	3.639	-1.7593E-02	68.40	18.19	69.93	39.23	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	18.19	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	3.841	-1.7226E-02	72.20	19.21	73.80	41.14	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	19.21	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	9.809	-1.6858E-02	76.00	49.04	77.68	50.20	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	49.04	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	10.33	-1.6492E-02	79.80	51.66	81.55	52.87	ACTIVE	0.000	-4.200	0.000	

1.000	1.000	51.66	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	10.86	-1.6127E-02	83.60	54.28	85.43	55.54	ACTIVE	0.000	-4.400	0.000
1.000	1.000	54.28	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	11.38	-1.5762E-02	87.40	56.90	89.30	58.21	ACTIVE	0.000	-4.600	0.000
1.000	1.000	56.90	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	11.90	-1.5399E-02	91.20	59.52	93.18	60.88	ACTIVE	0.000	-4.800	0.000
1.000	1.000	59.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	12.43	-1.5037E-02	95.00	62.13	97.05	63.55	ACTIVE	0.000	-5.000	0.000
1.000	1.000	62.13	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	12.95	-1.4676E-02	98.80	64.75	100.9	66.22	ACTIVE	0.000	-5.200	0.000
1.000	1.000	64.75	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	13.47	-1.4317E-02	102.6	67.37	104.8	68.89	ACTIVE	0.000	-5.400	0.000
1.000	1.000	67.37	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	14.00	-1.3959E-02	106.4	69.99	108.7	71.56	ACTIVE	0.000	-5.600	0.000
1.000	1.000	69.99	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	14.52	-1.3603E-02	110.2	72.61	112.6	74.23	ACTIVE	0.000	-5.800	0.000
1.000	1.000	72.61	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	15.12	-1.3250E-02	112.9	74.45	115.3	76.12	ACTIVE	0.000	-6.000	1.127
1.000	1.000	75.58	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	15.76	-1.2898E-02	114.7	75.70	117.2	77.42	ACTIVE	0.000	-6.200	3.114
1.000	1.000	78.81	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	16.41	-1.2549E-02	116.5	76.95	119.1	78.72	ACTIVE	0.000	-6.400	5.101
1.000	1.000	82.05	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	17.06	-1.2203E-02	118.3	78.20	121.0	80.01	ACTIVE	0.000	-6.600	7.089
1.000	1.000	85.28	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	17.70	-1.1859E-02	120.1	79.45	122.8	81.31	ACTIVE	0.000	-6.800	9.076
1.000	1.000	88.52	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	18.35	-1.1518E-02	121.9	80.69	124.7	82.61	ACTIVE	0.000	-7.000	11.06
1.000	1.000	91.76	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	19.00	-1.1180E-02	123.7	81.94	126.6	83.90	ACTIVE	0.000	-7.200	13.05
1.000	1.000	94.99	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	19.65	-1.0844E-02	125.6	83.19	128.5	85.20	ACTIVE	0.000	-7.400	15.04
1.000	1.000	98.23	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	20.29	-1.0512E-02	127.4	84.44	130.4	86.50	ACTIVE	0.000	-7.600	17.03
1.000	1.000	101.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	20.94	-1.0184E-02	129.2	85.69	132.2	87.79	ACTIVE	0.000	-7.800	19.01
1.000	1.000	104.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	21.59	-9.8588E-03	131.0	86.94	134.1	89.08	ACTIVE	0.000	-8.000	21.00
1.000	1.000	107.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	22.23	-9.5372E-03	132.8	88.19	136.0	90.38	ACTIVE	0.000	-8.200	22.99
1.000	1.000	111.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	22.88	-9.2193E-03	134.6	89.44	137.9	91.67	ACTIVE	0.000	-8.400	24.97
1.000	1.000	114.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.53	-8.9052E-03	136.4	90.69	139.7	92.96	ACTIVE	0.000	-8.600	26.96
1.000	1.000	117.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	24.18	-8.5950E-03	138.3	91.93	141.6	94.25	ACTIVE	0.000	-8.800	28.95
1.000	1.000	120.9	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	24.82	-8.2887E-03	140.1	93.18	143.7	95.67	ACTIVE	0.000	-9.000	30.94
1.000	1.000	124.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	25.47	-7.9865E-03	141.9	94.43	145.7	97.10	ACTIVE	0.000	-9.200	32.92
1.000	1.000	127.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	26.12	-7.6884E-03	143.7	95.68	147.8	98.52	ACTIVE	0.000	-9.400	34.91
1.000	1.000	130.6	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	26.77	-7.3947E-03	145.5	96.93	149.9	99.94	ACTIVE	0.000	-9.600	36.90
1.000	1.000	133.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	27.41	-7.1052E-03	147.3	98.18	151.9	101.4	ACTIVE	0.000	-9.800	38.89
1.000	1.000	137.1	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	28.06	-6.8202E-03	149.1	99.43	154.0	102.8	ACTIVE	0.000	-10.000	40.87
1.000	1.000	140.3	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	28.71	-6.5398E-03	150.9	100.7	156.0	104.2	ACTIVE	0.000	-10.200	42.86
1.000	1.000	143.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	29.35	-6.2641E-03	152.8	101.9	158.1	105.6	ACTIVE	0.000	-10.40	44.85
1.000	1.000	146.8	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.00	-5.9931E-03	154.6	103.2	160.1	107.0	ACTIVE	0.000	-10.60	46.83
1.000	1.000	150.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	30.65	-5.7270E-03	156.4	104.4	162.1	108.4	ACTIVE	0.000	-10.80	48.82
1.000	1.000	153.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	31.30	-5.4658E-03	158.2	105.7	164.1	109.8	ACTIVE	0.000	-11.00	50.81
1.000	1.000	156.5	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	31.94	-5.2099E-03	160.0	106.9	166.2	111.2	ACTIVE	0.000	-11.20	52.80
1.000	1.000	159.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	32.59	-4.9591E-03	161.8	108.2	168.2	112.6	ACTIVE	0.000	-11.40	54.78
1.000	1.000	163.0	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	33.24	-4.7138E-03	163.6	109.4	170.2	113.9	ACTIVE	0.000	-11.60	56.77
1.000	1.000	166.2	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	33.89	-4.4741E-03	165.4	110.7	172.2	115.3	ACTIVE	0.000	-11.80	58.76
1.000	1.000	169.4	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	34.53	-4.2400E-03	167.3	111.9	174.2	116.7	ACTIVE	0.000	-12.00	60.75
1.000	1.000	172.7	0.000	0.000	2.000	2.000	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	28.41	-4.0119E-03	169.2	79.31	176.3	88.20	ACTIVE	0.000	-12.20	62.73
1.000	1.000	142.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	29.04	-3.7898E-03	171.3	80.49	178.6	89.21	ACTIVE	0.000	-12.40	64.72
1.000	1.000	145.2	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	29.67	-3.5739E-03	173.4	81.66	180.9	90.22	ACTIVE	0.000	-12.60	66.71
1.000	1.000	148.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	30.31	-3.3644E-03	175.5	82.84	183.2	91.23	ACTIVE	0.000	-12.80	68.70
1.000	1.000	151.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	30.94	-3.1613E-03	177.6	84.02	185.5	92.24	ACTIVE	0.000	-13.00	70.68
1.000	1.000	154.7	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	31.57	-2.9649E-03	179.7	85.19	187.8	93.25	ACTIVE	0.000	-13.20	72.67
1.000	1.000	157.9	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	32.21	-2.7751E-03	181.9	86.37	190.1	94.27	ACTIVE	0.000	-13.40	74.66
1.000	1.000	161.0	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	32.84	-2.5921E-03	184.0	87.55	192.4	95.28	ACTIVE	0.000	-13.60	76.64
1.000	1.000	164.2	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	33.47	-2.4159E-03	186.1	88.72	194.6	96.29	ACTIVE	0.000	-13.80	78.63
1.000	1.000	167.4	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	34.10	-2.2466E-03	188.2	89.90	196.9	97.30	ACTIVE	0.000	-14.00	80.62
1.000	1.000	170.5	0.000	0.000	10.00	10.00	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	21.33	-2.0842E-03	190.5	24.05	199.3	98.40	ACTIVE	0.000	-14.20	82.61
1.000	1.000	106.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	21.98	-1.9288E-03	193.0	25.29	202.0	99.61	ACTIVE	0.000	-14.40	84.59
1.000	1.000	109.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	22.62	-1.7803E-03	195.5	26.54	204.7	100.8	ACTIVE	0.000	-14.60	86.58
1.000	1.000	113.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	23.27	-1.6388E-03	198.0	27.79	207.3	102.0	ACTIVE	0.000	-14.80	88.57
1.000	1.000	116.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	23.92	-1.5042E-03	200.5	29.03	210.0	103.3	ACTIVE	0.000	-15.00	90.56
1.000	1.000	119.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	24.58	-1.3764E-03	203.0	30.34	212.6	104.5	UL-RL	1.2392E+05	-15.20	92.54
1.000	1.000	122.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	25.47	-1.2553E-03	205.5	32.80	215.3	105.7	UL-RL	1.2392E+05	-15.40	94.53
1.000	1.000	127.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	26.33	-1.1407E-03	208.1	35.14	218.0	106.9	UL-RL	1.2392E+05	-15.60	96.52
1.000	1.000	131.7	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	27.17	-1.0326E-03	210.6	37.37	220.6	108.1	UL-RL	1.2392E+05	-15.80	98.50
1.000	1.000	135.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	28.00	-9.3069E-04	213.1	39.50	223.3	109.3	UL-RL	1.2392E+05	-16.00	100.5
1.000	1.000	140.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	28.80	-8.3480E-04	215.6	41.53	225.9	110.6	UL-RL	1.2392E+05	-16.20	102.5
1.000	1.000	144.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	29.59	-7.4471E-04	218.1	43.47	228.5	111.8	UL-RL	1.2392E+05	-16.40	104.5
1.000	1.000	147.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	30.36	-6.6018E-04	220.6	45.33	231.2	113.0	UL-RL	1.2392E+05	-16.60	106.5
1.000	1.000	151.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	31.10	-5.8095E-04	223.1	47.07	233.6	114.2	UL-RL	1.2392E+05	-16.80	108.4
1.000	1.000	155.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	32.08	-5.0675E-04	225.7	49.99	236.1	115.4	UL-RL	1.2392E+05	-17.00	110.4
1.000	1.000	160.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	34.45	-4.3729E-04	228.2	59.83	238.6	116.6	UL-RL	1.2392E+05	-17.20	112.4
1.000	1.000	172.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	36.70	-3.7227E-04	230.7	69.12	241.0	117.9	UL-RL	1.2392E+05	-17.40	114.4
1.000	1.000	183.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	38.86	-3.1139E-04	233.2	77.90	243.5	119.1	UL-RL	1.2392E+05	-17.60	116.4
1.000	1.000	194.3	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	40.92	-2.5431E-04	235.7	86.21	245.9	120.3	UL-RL	1.2392E+05	-17.80	118.4
1.000	1.000	204.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	42.89	-2.0072E-04	238.2	94.08	248.4	121.5	UL-RL	1.2392E+05	-18.00	120.4
1.000	1.000	214.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	44.78	-1.5031E-04	240.7	101.6	250.9	122.8	UL-RL	1.2392E+05	-18.20	122.4
1.000	1.000	223.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	46.61	-1.0275E-04	243.2	108.7	253.3	124.0	UL-RL	1.2392E+05	-18.40	124.3
1.000	1.000	233.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	48.37	-5.7732E-05	245.8	115.5	255.8	125.2	UL-RL	1.2392E+05	-18.60	126.3
1.000	1.000	241.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	50.07	-1.4950E-05	248.3	122.1	258.2	126.4	UL-RL	1.2392E+05	-18.80	128.3
1.000	1.000	250.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	51.55	2.5889E-05	250.8	127.5	260.7	128.1	UL-RL	1.2392E+05	-19.00	130.3
1.000	1.000	257.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	52.60	6.5067E-05	253.3	130.7	263.2	130.7	UL-RL	1.2392E+05	-19.20	132.3
1.000	1.000	263.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	53.56	1.0285E-04	255.8	133.5	265.6	133.5	V-C	4.1306E+04	-19.40	134.3
1.000	1.000	267.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	54.50	1.3947E-04	258.3	136.3	268.1	136.3	V-C	4.1306E+04	-19.60	136.3
1.000	1.000	272.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	55.44	1.7517E-04	260.8	139.0	270.6	139.0	V-C	4.1306E+04	-19.80	138.3
1.000	1.000	277.2	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	56.38	2.1014E-04	263.3	141.6	273.0	141.6	V-C	4.1306E+04	-20.00	140.2
1.000	1.000	281.9	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	57.30	2.4458E-04	265.9	144.3	275.5	144.3	V-C	4.1306E+04	-20.20	142.2
1.000	1.000	286.5	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	58.23	2.7863E-04	268.4	146.9	278.0	146.9	V-C	4.1306E+04	-20.40	144.2
1.000	1.000	291.1	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	59.15	3.1243E-04	270.9	149.6	280.4	149.6	V-C	4.1306E+04	-20.60	146.2
1.000	1.000	295.8	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	60.07	3.4609E-04	273.4	152.2	282.9	152.2	V-C	4.1306E+04	-20.80	148.2
1.000	1.000	300.4	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	61.00	3.7968E-04	275.9	154.8	285.4	154.8	V-C	4.1306E+04	-21.00	150.2
1.000	1.000	305.0	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	30.96	4.1324E-04	278.4	157.4	287.8	157.4	V-C	4.1306E+04	-21.20	152.2
1.000	1.000	309.6	0.000	0.000	50.00	50.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                           |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:35:01       |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 2

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O_R :
ELEMENT TYPE    5 NO.OF ELEMENTS. IN THIS GROUP 107
CURRENT TIME IS    3.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
2	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
4	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
6	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
10	0.000	--	--	--	--	--	REMOVED	--	-1.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
12	0.000	--	--	--	--	--	REMOVED	--	-2.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
16	0.000	--	--	--	--	--	REMOVED	--	-3.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
18	0.000	--	--	--	--	--	REMOVED	--	-3.400	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
20	0.000	--	--	--	--	--	REMOVED	--	-3.800	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	not available				
21 D	1.162	1.6858E-02	0.000	5.810	0.000	6.171	PASSIVE	0.000	-4.000	0.000	
1.000	1.000	5.810	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	2.696	1.6492E-02	3.800	13.48	3.800	15.21	PASSIVE	0.000	-4.200	0.000	
1.000	1.000	13.48	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
23 D	4.231	1.6127E-02	7.600	21.15	7.600	24.26	PASSIVE	0.000	-4.400	0.000	
1.000	1.000	21.15	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
24 D	5.765	1.5762E-02	11.40	28.82	11.40	33.30	PASSIVE	0.000	-4.600	0.000	
1.000	1.000	28.82	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
25 D	7.299	1.5399E-02	15.20	36.50	15.20	42.35	PASSIVE	0.000	-4.800	0.000	
1.000	1.000	36.50	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
26 D	8.833	1.5037E-02	19.00	44.17	19.00	51.39	PASSIVE	0.000	-5.000	0.000	
1.000	1.000	44.17	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
27 D	10.37	1.4676E-02	22.80	51.84	22.80	60.43	PASSIVE	0.000	-5.200	0.000	
1.000	1.000	51.84	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
28 D	11.90	1.4317E-02	26.60	59.51	26.60	69.48	PASSIVE	0.000	-5.400	0.000	
1.000	1.000	59.51	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	13.44	1.3959E-02	30.40	67.18	30.40	78.52	PASSIVE	0.000	-5.600	0.000
1.000	1.000	67.18	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	14.97	1.3603E-02	34.20	74.85	34.20	87.57	PASSIVE	0.000	-5.800	0.000
1.000	1.000	74.85	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	16.50	1.3250E-02	38.00	82.52	38.00	96.61	PASSIVE	0.000	-6.000	0.000
1.000	1.000	82.52	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	17.71	1.2898E-02	40.59	87.34	40.59	102.8	PASSIVE	0.000	-6.200	1.211
1.000	1.000	88.55	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	18.70	1.2549E-02	42.38	90.27	42.38	103.3	PASSIVE	0.000	-6.400	3.223
1.000	1.000	93.50	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	19.69	1.2203E-02	44.16	93.20	44.16	102.2	PASSIVE	0.000	-6.600	5.236
1.000	1.000	98.44	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	20.68	1.1859E-02	45.95	96.14	45.95	101.1	PASSIVE	0.000	-6.800	7.249
1.000	1.000	103.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	21.67	1.1518E-02	47.74	99.07	47.74	99.94	PASSIVE	0.000	-7.000	9.261
1.000	1.000	108.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	22.66	1.1180E-02	49.53	102.0	49.53	102.0	PASSIVE	0.000	-7.200	11.27
1.000	1.000	113.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	23.65	1.0844E-02	51.31	104.9	51.31	104.9	PASSIVE	0.000	-7.400	13.29
1.000	1.000	118.2	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	24.37	1.0512E-02	53.10	106.5	53.10	106.5	V-C	7167.	-7.600	15.30
1.000	1.000	121.8	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	24.47	1.0184E-02	54.89	105.0	54.89	105.0	V-C	7167.	-7.800	17.31
1.000	1.000	122.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	24.58	9.8588E-03	56.68	103.6	56.68	103.6	V-C	7167.	-8.000	19.32
1.000	1.000	122.9	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	24.69	9.5372E-03	58.46	102.1	58.46	102.1	V-C	7167.	-8.200	21.34
1.000	1.000	123.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	24.81	9.2193E-03	60.25	100.7	60.25	100.7	V-C	7167.	-8.400	23.35
1.000	1.000	124.0	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	24.93	8.9052E-03	62.04	99.28	62.04	99.28	V-C	7167.	-8.600	25.36
1.000	1.000	124.6	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	25.06	8.5950E-03	63.82	97.91	63.82	97.91	V-C	7167.	-8.800	27.38
1.000	1.000	125.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	25.19	8.2887E-03	65.61	96.56	65.61	96.56	V-C	7167.	-9.000	29.39
1.000	1.000	126.0	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	25.33	7.9865E-03	67.40	95.25	67.40	95.25	V-C	7167.	-9.200	31.40
1.000	1.000	126.6	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	25.47	7.6884E-03	69.19	93.96	69.19	93.96	V-C	7167.	-9.400	33.41
1.000	1.000	127.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	25.63	7.3947E-03	70.97	92.70	70.97	92.70	V-C	7167.	-9.600	35.43
1.000	1.000	128.1	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	25.78	7.1052E-03	72.76	91.47	72.76	91.47	V-C	7167.	-9.800	37.44
1.000	1.000	128.9	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	25.95	6.8202E-03	74.55	90.28	74.55	90.28	V-C	7167.	-10.000	39.45
1.000	1.000	129.7	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	26.12	6.5398E-03	76.34	89.12	76.34	89.12	V-C	7167.	-10.200	41.46
1.000	1.000	130.6	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	26.29	6.2641E-03	78.12	87.99	78.12	87.99	V-C	7167.	-10.400	43.48
1.000	1.000	131.5	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	26.48	5.9931E-03	79.91	86.89	79.91	86.89	V-C	7167.	-10.600	45.49
1.000	1.000	132.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	26.67	5.7270E-03	81.70	85.83	81.70	85.83	V-C	7167.	-10.800	47.50
1.000	1.000	133.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	26.86	5.4658E-03	83.48	84.80	83.48	84.80	V-C	7167.	-11.000	49.52
1.000	1.000	134.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	27.07	5.2099E-03	85.27	83.82	85.27	83.82	V-C	7167.	-11.200	51.53
1.000	1.000	135.3	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	27.28	4.9591E-03	87.06	82.87	87.06	82.87	V-C	7167.	-11.400	53.54
1.000	1.000	136.4	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	27.50	4.7138E-03	88.85	81.95	88.85	81.95	V-C	7167.	-11.600	55.55
1.000	1.000	137.5	0.000	0.000	2.045	2.045	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	27.73	4.4741E-03	90.63	81.08	90.63	81.08	V-C 7167.	-11.80	57.57	
1.000	1.000	138.6	0.000	0.000	2.045	2.045	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	27.97	4.2400E-03	92.42	80.25	92.42	80.25	V-C 7167.	-12.00	59.58	
1.000	1.000	139.8	0.000	0.000	2.045	2.045	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	41.46	4.0119E-03	94.33	145.7	94.33	145.7	V-C 2.3669E+04	-12.20	61.59	
1.000	1.000	207.3	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	41.01	3.7898E-03	96.42	141.5	96.42	141.5	V-C 2.3669E+04	-12.40	63.60	
1.000	1.000	205.1	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.60	3.5739E-03	98.50	137.4	98.50	137.4	V-C 2.3669E+04	-12.60	65.62	
1.000	1.000	203.0	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	40.21	3.3644E-03	100.6	133.4	100.6	133.4	V-C 2.3669E+04	-12.80	67.63	
1.000	1.000	201.0	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	39.85	3.1613E-03	102.7	129.6	102.7	129.6	V-C 2.3669E+04	-13.00	69.64	
1.000	1.000	199.2	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	39.52	2.9649E-03	104.8	125.9	104.8	125.9	V-C 2.3669E+04	-13.20	71.65	
1.000	1.000	197.6	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	39.22	2.7751E-03	106.9	122.4	106.9	122.4	V-C 2.3669E+04	-13.40	73.67	
1.000	1.000	196.1	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	38.96	2.5921E-03	108.9	119.1	108.9	119.1	V-C 2.3669E+04	-13.60	75.68	
1.000	1.000	194.8	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	38.73	2.4159E-03	111.0	115.9	111.0	115.9	V-C 2.3669E+04	-13.80	77.69	
1.000	1.000	193.6	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	38.53	2.2466E-03	113.1	112.9	113.1	112.9	V-C 2.3669E+04	-14.00	79.71	
1.000	1.000	192.6	0.000	0.000	10.22	10.22	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	41.44	2.0842E-03	115.4	125.5	115.4	125.5	V-C 3.1023E+04	-14.20	81.72	
1.000	1.000	207.2	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	41.12	1.9288E-03	117.8	121.9	117.8	121.9	V-C 3.1023E+04	-14.40	83.73	
1.000	1.000	205.6	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	40.84	1.7803E-03	120.3	118.5	120.3	118.5	V-C 3.1023E+04	-14.60	85.74	
1.000	1.000	204.2	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	40.61	1.6388E-03	122.8	115.3	122.8	115.3	V-C 3.1023E+04	-14.80	87.76	
1.000	1.000	203.0	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	40.42	1.5042E-03	125.3	112.3	125.3	112.3	V-C 3.1023E+04	-15.00	89.77	
1.000	1.000	202.1	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	40.27	1.3764E-03	127.8	109.5	127.8	109.5	V-C 3.1023E+04	-15.20	91.78	
1.000	1.000	201.3	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	40.16	1.2553E-03	130.3	107.0	130.3	107.0	V-C 3.1023E+04	-15.40	93.79	
1.000	1.000	200.8	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	40.09	1.1407E-03	132.8	104.6	132.8	104.6	V-C 3.1023E+04	-15.60	95.81	
1.000	1.000	200.5	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	39.97	1.0326E-03	135.3	102.0	135.3	102.7	UL-RL 9.3069E+04	-15.80	97.82	
1.000	1.000	199.9	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	39.90	9.3069E-04	137.7	99.65	137.7	101.0	UL-RL 9.3069E+04	-16.00	99.83	
1.000	1.000	199.5	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	39.87	8.3480E-04	140.2	97.51	140.2	99.39	UL-RL 9.3069E+04	-16.20	101.8	
1.000	1.000	199.4	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	39.89	7.4471E-04	142.7	95.59	142.7	97.97	UL-RL 9.3069E+04	-16.40	103.9	
1.000	1.000	199.4	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	39.95	6.6018E-04	145.2	93.88	145.2	96.70	UL-RL 9.3069E+04	-16.60	105.9	
1.000	1.000	199.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	40.05	5.8095E-04	147.7	92.37	147.7	95.58	UL-RL 9.3069E+04	-16.80	107.9	
1.000	1.000	200.3	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	40.19	5.0675E-04	150.2	91.06	150.2	94.59	UL-RL 9.3069E+04	-17.00	109.9	
1.000	1.000	201.0	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	40.37	4.3729E-04	152.7	89.92	152.7	93.74	UL-RL 9.3069E+04	-17.20	111.9	
1.000	1.000	201.8	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	40.57	3.7227E-04	155.2	88.95	155.2	93.01	UL-RL 9.3069E+04	-17.40	113.9	
1.000	1.000	202.9	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	40.81	3.1139E-04	157.6	88.14	157.6	92.39	UL-RL 9.3069E+04	-17.60	115.9	
1.000	1.000	204.1	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	41.08	2.5431E-04	160.1	87.47	160.1	91.89	UL-RL 9.3069E+04	-17.80	117.9	

1.000	1.000	205.4	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	41.38	2.0072E-04	162.6	86.92	162.6	91.48	UL-RL 9.3069E+04	-18.00	120.0
1.000	1.000	206.9	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	41.69	1.5031E-04	165.1	86.49	165.1	91.16	UL-RL 9.3069E+04	-18.20	122.0
1.000	1.000	208.5	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	41.75	1.0275E-04	167.6	84.76	167.6	91.63	UL-RL 9.3069E+04	-18.40	124.0
1.000	1.000	208.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	41.65	5.7732E-05	170.1	82.23	170.1	92.61	UL-RL 9.3069E+04	-18.60	126.0
1.000	1.000	208.2	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	41.58	1.4950E-05	172.6	79.88	172.6	93.62	UL-RL 9.3069E+04	-18.80	128.0
1.000	1.000	207.9	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	41.54	-2.5889E-05	175.1	77.68	175.1	94.63	UL-RL 9.3069E+04	-19.00	130.0
1.000	1.000	207.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	41.53	-6.5067E-05	177.5	75.61	177.5	95.66	UL-RL 9.3069E+04	-19.20	132.0
1.000	1.000	207.6	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	41.54	-1.0285E-04	180.0	73.65	180.0	96.70	UL-RL 9.3069E+04	-19.40	134.0
1.000	1.000	207.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	41.57	-1.3947E-04	182.5	71.78	182.5	97.75	UL-RL 9.3069E+04	-19.60	136.1
1.000	1.000	207.8	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	41.61	-1.7517E-04	185.0	69.98	185.0	98.81	UL-RL 9.3069E+04	-19.80	138.1
1.000	1.000	208.1	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	41.67	-2.1014E-04	187.5	68.25	187.5	99.87	UL-RL 9.3069E+04	-20.00	140.1
1.000	1.000	208.3	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	41.73	-2.4458E-04	190.0	66.55	190.0	100.9	UL-RL 9.3069E+04	-20.20	142.1
1.000	1.000	208.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	41.80	-2.7863E-04	192.5	64.89	192.5	102.0	UL-RL 9.3069E+04	-20.40	144.1
1.000	1.000	209.0	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	41.87	-3.1243E-04	195.0	63.24	195.0	103.1	UL-RL 9.3069E+04	-20.60	146.1
1.000	1.000	209.4	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	41.95	-3.4609E-04	197.4	61.61	197.4	104.2	UL-RL 9.3069E+04	-20.80	148.1
1.000	1.000	209.7	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	42.03	-3.7968E-04	199.9	59.98	199.9	105.2	UL-RL 9.3069E+04	-21.00	150.1
1.000	1.000	210.1	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	21.05	-4.1324E-04	202.4	58.36	202.4	106.3	UL-RL 9.3069E+04	-21.20	152.2
1.000	1.000	210.5	0.000	0.000	51.12	51.12	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:01          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.46220	-0.46220	4.33466E-10	9.24400E-02
2	1.5888	-1.5888	-9.24400E-02	0.41019
3	2.9175	-2.9175	-0.41019	0.99369
4	4.4484	-4.4484	-0.99369	1.8834
5	6.1814	-6.1814	-1.8834	3.1196
6	8.1166	-8.1166	-3.1196	4.7430
7	10.254	-10.254	-4.7430	6.7938
8	12.593	-12.593	-6.7938	9.3124
9	15.135	-15.135	-9.3124	12.339
10	17.879	-17.879	-12.339	15.915
11	20.825	-20.825	-15.915	20.080
12	23.973	-23.973	-20.080	24.875
13	27.323	-27.323	-24.875	30.340
14	30.876	-30.876	-30.340	36.515
15	34.631	-34.631	-36.515	43.441

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus |
|                                                                                               Exe Time :28 January 2022   15:35:01 |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

WallElement_New_75260 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	38.596	-38.596	-43.441	51.160
2	42.772	-42.772	-51.160	59.714
3	47.150	-47.150	-59.714	69.144
4	51.730	-51.730	-69.144	79.491
5	56.513	-56.513	-79.491	90.793
6	65.630	-65.630	-90.793	103.92
7	73.266	-73.266	-103.92	118.57
8	79.892	-79.892	-118.57	134.55
9	85.506	-85.506	-134.55	151.65
10	90.110	-90.110	-151.65	169.67
11	93.704	-93.704	-169.67	188.41
12	96.287	-96.287	-188.41	207.67
13	97.859	-97.859	-207.67	227.24
14	98.420	-98.420	-227.24	246.93
15	97.971	-97.971	-246.93	266.52
16	96.582	-96.582	-266.52	285.84
17	94.633	-94.633	-285.84	304.76
18	92.344	-92.344	-304.76	323.23
19	89.713	-89.713	-323.23	341.18
20	86.740	-86.740	-341.18	358.52
21	83.425	-83.425	-358.52	375.21
22	79.767	-79.767	-375.21	391.16
23	75.767	-75.767	-391.16	406.32
24	71.692	-71.692	-406.32	420.65
25	68.161	-68.161	-420.65	434.29
26	65.171	-65.171	-434.29	447.32
27	62.716	-62.716	-447.32	459.86
28	60.791	-60.791	-459.86	472.02
29	59.391	-59.391	-472.02	483.90
30	58.511	-58.511	-483.90	495.60
31	58.144	-58.144	-495.60	507.23
32	58.286	-58.286	-507.23	518.89
33	58.930	-58.930	-518.89	530.67
34	60.070	-60.070	-530.67	542.69
35	61.700	-61.700	-542.69	555.03
36	63.815	-63.815	-555.03	567.79
37	66.406	-66.406	-567.79	581.07
38	69.468	-69.468	-581.07	594.97
39	72.994	-72.994	-594.97	609.57
40	76.977	-76.977	-609.57	624.96
41	81.409	-81.409	-624.96	641.24
42	86.284	-86.284	-641.24	658.50
43	91.594	-91.594	-658.50	676.82
44	97.330	-97.330	-676.82	696.28
45	103.49	-103.49	-696.28	716.98
46	110.05	-110.05	-716.98	738.99
47	96.997	-96.997	-738.99	758.39
48	85.023	-85.023	-758.39	775.40
49	74.103	-74.103	-775.40	790.22
50	64.205	-64.205	-790.22	803.06
51	55.298	-55.298	-803.06	814.12
52	47.352	-47.352	-814.12	823.59
53	40.335	-40.335	-823.59	831.65
54	34.215	-34.215	-831.65	838.50
55	28.959	-28.959	-838.50	844.29
56	24.535	-24.535	-844.29	849.20
57	4.4231	-4.4231	-849.20	850.08
58	-14.721	14.721	-850.08	847.14
59	-32.940	32.940	-847.14	840.55
60	-50.277	50.277	-840.55	830.49
61	-66.775	66.775	-830.49	817.14
62	-82.464	82.464	-817.14	800.65
63	-97.156	97.156	-800.65	781.21
64	-110.92	110.92	-781.21	759.03
65	-123.71	123.71	-759.03	734.29
66	-135.61	135.61	-734.29	707.17
67	-146.68	146.68	-707.17	677.83
68	-156.98	156.98	-677.83	646.43
69	-166.58	166.58	-646.43	613.12
70	-175.53	175.53	-613.12	578.01

71	-183.63	183.63	-578.01	541.28
72	-189.55	189.55	-541.28	503.37
73	-193.42	193.42	-503.37	464.69
74	-195.38	195.38	-464.69	425.61
75	-195.54	195.54	-425.61	386.50
76	-194.03	194.03	-386.50	347.70
77	-190.94	190.94	-347.70	309.51
78	-186.08	186.08	-309.51	272.29
79	-179.36	179.36	-272.29	236.42
80	-170.86	170.86	-236.42	202.25
81	-160.85	160.85	-202.25	170.08
82	-149.78	149.78	-170.08	140.12
83	-137.76	137.76	-140.12	112.57
84	-124.82	124.82	-112.57	87.607
85	-110.99	110.99	-87.607	65.409
86	-96.280	96.280	-65.409	46.153
87	-80.706	80.706	-46.153	30.011
88	-64.277	64.277	-30.011	17.156
89	-46.999	46.999	-17.156	7.7560
90	-28.874	28.874	-7.7560	1.9811
91	-9.9060	9.9060	-1.9811	-8.72902E-12

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:35:01                            |
+-----+
```

F I N A L I N C R E M E N T A L A N A L Y S I S

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	6
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME ... 0.07 [sec]

DATABASE CREATION CPU TIME..... 0.19 [sec]

8.11. Design Assumption : SISMICA GEO - File di Paratie - File di input (.d)

```
* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SISMICA GEO
* Time:venerdi 28 gennaio 2022 15:35:01
* 1: Defining general settings
UNIT m kN
TITLE New Project
DELTA 0.2
option param itemax 40
option control contact lagrange

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_36 0 -21.2 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_36 -21.2 0 1 0
SOIL 0_R LeftWall_36 -21.2 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Rilevato_76031_14_L_0)
*
LDATA Rilevato_76031_14_L_0 15 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 35 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 40000 40000
ENDL
*
* Soil Profile (Ala_76024_15_L_0)
*
LDATA Ala_76024_15_L_0 -4 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 2 25 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 30000 90000
ENDL
*
* Soil Profile (Salt_175_16_L_0)
*
LDATA Salt_175_16_L_0 -12.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 20.5 10.5 10
PERMEABILITY 1E-05
RESISTANCE 10 27 0 0 0
TZDATA LINEAR 10000 0 25 0.5 0
KSCALE 0 0
YOUNG 1.03E+05 3.09E+05
ENDL
*
* Soil Profile (Pa_37608_76032_L_0)
*
LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
ATREST 0.5 0.5 1
WEIGHT 22.5 12.5 10
PERMEABILITY 1E-05
RESISTANCE 50 27 0 0 0
TZDATA LINEAR 0 0 0 0.5 0
KSCALE 0 0
YOUNG 1.35E+05 4.05E+05
ENDL

* 5: Defining structural materials
* Steel material: 114 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_114 2.06E+08
* Concrete material: 112 Name=C32/40 E=33345800 kPa
MATERIAL C3240_112 3.3346E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
** rev 2021 and later
BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
** rev 2021 and later
BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0

* 6.2: Supports
```

* 6.3: Strips

STRIP LeftWall_36 1 1 11.4 9.9 4.7 40 45

* 7: Defining Steps

STEP Finale_40504

CHANGE Rilevato_76031_14_L_0 U-FRICT=29.256 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-FRICT=29.256 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KA=0.348 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KP=6.227 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KA=0.3 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KP=4.102 LeftWall_36
CHANGE Ala_76024_15_L_0 U-FRICT=20.458 LeftWall_36
CHANGE Ala_76024_15_L_0 D-FRICT=20.458 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KA=0.878 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KP=3.27 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KA=0.385 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KP=1.894 LeftWall_36
CHANGE Salt_175_16_L_0 U-FRICT=22.177 LeftWall_36
CHANGE Salt_175_16_L_0 D-FRICT=22.177 LeftWall_36
CHANGE Salt_175_16_L_0 U-KA=0.858 LeftWall_36
CHANGE Salt_175_16_L_0 U-KP=3.542 LeftWall_36
CHANGE Salt_175_16_L_0 D-KA=0.36 LeftWall_36
CHANGE Salt_175_16_L_0 D-KP=2.063 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-FRICT=22.177 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-FRICT=22.177 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KA=0.718 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KP=3.357 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KA=0.36 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KP=2.098 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 U-COHE=1.6 LeftWall_36
CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
CHANGE Ala_76024_15_L_0 D-COHE=1.6 LeftWall_36
CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 U-COHE=8 LeftWall_36
CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
CHANGE Salt_175_16_L_0 D-COHE=8 LeftWall_36
CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-COHE=40 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-COHE=40 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ADD WallElement_11138 WallElement_New_75260
ENDSTEP

STEP StageA_205794

SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
ENDSTEP

STEP Sisma_79386

SETWALL LeftWall_36
GEOM 0 -4
SURCHARGE 0 0 0 0
WATER -5.8866 0.1931 -21.2 0 0
CHANGE Rilevato_76031_14_L_0 U-KAED=0.44023 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KAEW=0.5602 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KPED=6.4658 LeftWall_36
CHANGE Rilevato_76031_14_L_0 U-KPEW=6.3489 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KAED=0.34349 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KAEW=0.42099 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KPED=3.6904 LeftWall_36
CHANGE Rilevato_76031_14_L_0 D-KPEW=3.3698 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KAED=0.98791 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KAEW=1.0735 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KPED=3.3633 LeftWall_36
CHANGE Ala_76024_15_L_0 U-KPEW=3.2527 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KAED=0.42099 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KAEW=0.4918 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KPED=1.5596 LeftWall_36
CHANGE Ala_76024_15_L_0 D-KPEW=1.0793 LeftWall_36
CHANGE Salt_175_16_L_0 U-KAED=0.97226 LeftWall_36
CHANGE Salt_175_16_L_0 U-KAEW=1.0495 LeftWall_36
CHANGE Salt_175_16_L_0 U-KPED=3.6157 LeftWall_36
CHANGE Salt_175_16_L_0 U-KPEW=3.4947 LeftWall_36
CHANGE Salt_175_16_L_0 D-KAED=0.39612 LeftWall_36
CHANGE Salt_175_16_L_0 D-KAEW=0.45352 LeftWall_36
CHANGE Salt_175_16_L_0 D-KPED=1.7213 LeftWall_36
CHANGE Salt_175_16_L_0 D-KPEW=1.395 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KAED=0.97226 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KAEW=1.0369 LeftWall_36

```

CHANGE Pa_37608_76032_L_0 U-KPED=3.3894 LeftWall_36
CHANGE Pa_37608_76032_L_0 U-KPEW=3.2663 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KAED=0.39612 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KAEW=0.44396 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KPED=1.7596 LeftWall_36
CHANGE Pa_37608_76032_L_0 D-KPEW=1.5022 LeftWall_36
EQK USER 0.0864 0.0432 -0.0432 0 0.5 -9.2645 0.5 0 0
* Defining seismic surcharge pressures on wall LeftWall_36
*   min elevation = -4
*   max elevation = 0
*   average gamma = 19
*   kh = 0,0864
*   deltaQ = 9,8496
DLOAD step LeftWall_36 -4 2.4624 0 2.4624
* Include pressure contribution from wall: LeftWall_36
* Include wall contribution
DLOAD step LeftWall_36 -3 2.16 0 2.16
DLOAD step LeftWall_36 -4 2.2453 -3 2.2453
ENDSTEP

```

8.12. Design Assumption : SISMICA GEO - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS(TM)   NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021* |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |
+-----+

```

```

*****
*
*   PARATIE PLUS Non-Linear Spring Engine
*
*   AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
*   FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
*   Written by CEAS s.r.l. (ITALY)
*   with the scientific supervision of
*   Roberto Nova - full professor SOIL MECHANICS
*   at Politecnico di Milano (ITALY)
*
*****
*
*   RELEASE 2022.0.0 *Build date:Sep 13, 2021*
*
*
*   CEAS S.R.L VIALE GIUSTINIANO 10
*   20129 M I L A N O (ITALIA)
*   TEL. +39 02 2020221
*
*   email bruno.becci@ceas.it
*   Web Page www.ceas.it www.paratieplus.com
*****

```

JOB : ParatiePlus

STARTING

```

ACCEPTED <<FILE,GENW >>
ACCEPTED <<FILE,PLOTTER,BINARY >>
ACCEPTED <<SOLVE TOTAL_STRESS >>
ACCEPTED <<PARAM ITEMAX 40 >>
ACCEPTED <<CONTROL CONTACT LAGRANGE >>
ACCEPTED <<CONTROL HINGES 0 0.0001 0.001 >>

```

```

*****
*
*   WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED
*   BY THE PROGRAM.
*
*****

```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]


```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                           |
|                                                                                               Exe Time :28 January 2022   15:35:02                                                                           |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 107
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 214
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 145
NO. OF LONG NAMES (LASTNAME) ..... 17
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
MAX INELASTIC DISPL. TABLE LENGTH..... 0
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

```

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F

```

RELEVANT ITEMS UNITS

```

STRESSES                kPa
Y-DISPLACEMENTS        m
ROTATIONS                RADIANS
BEAM AND SLAB MOMENTS   kN*m/m
BEAM SHEAR FORCES       kN/m
ANCHOR FORCES           kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS    kN/m
Y-REACTIONS             kN/m
X-MOMENT REACTIONS      kN*m/m
ETC.

```

```

+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:35:02                                                                                               |
+-----+

```

```

P R E P R O C E S S O R   D A T A

N O .   O F   C O M M A N D S   145

```

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 40
5 : option control contact lagrange
6 : option control hinges 0 0.0001 0.001
7 : WALL LeftWall_36 0 -21.2 0 1
8 : SOIL 0_L LeftWall_36 -21.2 0 1 0
9 : SOIL 0_R LeftWall_36 -21.2 0 2 180
10 : LDATA Rilevato_76031_14_L_0 15 LeftWall_36
11 : ATREST 0.5 0.5 1
12 : WEIGHT 19 9 10
13 : PERMEABILITY 1E-05
14 : RESISTANCE 0 35 0 0 0
15 : TZDATA LINEAR 0 0 0 0.5 0
16 : KSCALE 0 0
17 : YOUNG 40000 40000
18 : ENDL
19 : LDATA Ala_76024_15_L_0 -4 LeftWall_36
20 : ATREST 0.5 0.5 1
21 : WEIGHT 19 9 10
22 : PERMEABILITY 1E-05
23 : RESISTANCE 2 25 0 0 0
24 : TZDATA LINEAR 0 0 0 0.5 0
25 : KSCALE 0 0
26 : YOUNG 30000 90000
27 : ENDL
28 : LDATA Salt_175_16_L_0 -12.12 LeftWall_36
29 : ATREST 0.5 0.5 1
30 : WEIGHT 20.5 10.5 10
31 : PERMEABILITY 1E-05
32 : RESISTANCE 10 27 0 0 0
33 : TZDATA LINEAR 10000 0 25 0.5 0
34 : KSCALE 0 0
35 : YOUNG 1.03E+05 3.09E+05
36 : ENDL
37 : LDATA Pa_37608_76032_L_0 -14.12 LeftWall_36
38 : ATREST 0.5 0.5 1
39 : WEIGHT 22.5 12.5 10
40 : PERMEABILITY 1E-05
41 : RESISTANCE 50 27 0 0 0
42 : TZDATA LINEAR 0 0 0 0.5 0
43 : KSCALE 0 0
44 : YOUNG 1.35E+05 4.05E+05
45 : ENDL
46 : MATERIAL Fe360_114 2.06E+08
47 : MATERIAL C3240_112 3.3346E+07
48 : BEAM WallElement_11138 LeftWall_36 -3 0 C3240_112 1 1 0.083333 25 00 00 0
49 : BEAM WallElement_New_75260 LeftWall_36 -21.2 -3 C3240_112 1.206 1.0395 0.14618 25.987 00 00 0
50 : STRIP LeftWall_36 1 1 11.4 9.9 4.7 40 45
51 : STEP Finale_40504
52 : CHANGE Rilevato_76031_14_L_0 U-FRICT=29.256 LeftWall_36
53 : CHANGE Rilevato_76031_14_L_0 D-FRICT=29.256 LeftWall_36
54 : CHANGE Rilevato_76031_14_L_0 U-KA=0.348 LeftWall_36
55 : CHANGE Rilevato_76031_14_L_0 U-KP=6.227 LeftWall_36
56 : CHANGE Rilevato_76031_14_L_0 D-KA=0.3 LeftWall_36
57 : CHANGE Rilevato_76031_14_L_0 D-KP=4.102 LeftWall_36
58 : CHANGE Ala_76024_15_L_0 U-FRICT=20.458 LeftWall_36
59 : CHANGE Ala_76024_15_L_0 D-FRICT=20.458 LeftWall_36
60 : CHANGE Ala_76024_15_L_0 U-KA=0.878 LeftWall_36
61 : CHANGE Ala_76024_15_L_0 U-KP=3.27 LeftWall_36
62 : CHANGE Ala_76024_15_L_0 D-KA=0.385 LeftWall_36
63 : CHANGE Ala_76024_15_L_0 D-KP=1.894 LeftWall_36
64 : CHANGE Salt_175_16_L_0 U-FRICT=22.177 LeftWall_36
65 : CHANGE Salt_175_16_L_0 D-FRICT=22.177 LeftWall_36
66 : CHANGE Salt_175_16_L_0 U-KA=0.858 LeftWall_36
67 : CHANGE Salt_175_16_L_0 U-KP=3.542 LeftWall_36
68 : CHANGE Salt_175_16_L_0 D-KA=0.36 LeftWall_36
69 : CHANGE Salt_175_16_L_0 D-KP=2.063 LeftWall_36
70 : CHANGE Pa_37608_76032_L_0 U-FRICT=22.177 LeftWall_36
71 : CHANGE Pa_37608_76032_L_0 D-FRICT=22.177 LeftWall_36
72 : CHANGE Pa_37608_76032_L_0 U-KA=0.718 LeftWall_36
73 : CHANGE Pa_37608_76032_L_0 U-KP=3.357 LeftWall_36
74 : CHANGE Pa_37608_76032_L_0 D-KA=0.36 LeftWall_36
75 : CHANGE Pa_37608_76032_L_0 D-KP=2.098 LeftWall_36
76 : CHANGE Rilevato_76031_14_L_0 U-COHE=0 LeftWall_36
77 : CHANGE Rilevato_76031_14_L_0 U-ADHES=0 LeftWall_36
78 : CHANGE Rilevato_76031_14_L_0 D-COHE=0 LeftWall_36
79 : CHANGE Rilevato_76031_14_L_0 D-ADHES=0 LeftWall_36

```

80 : CHANGE Ala_76024_15_L_0 U-COHE=1.6 LeftWall_36
81 : CHANGE Ala_76024_15_L_0 U-ADHES=0 LeftWall_36
82 : CHANGE Ala_76024_15_L_0 D-COHE=1.6 LeftWall_36
83 : CHANGE Ala_76024_15_L_0 D-ADHES=0 LeftWall_36
84 : CHANGE Salt_175_16_L_0 U-COHE=8 LeftWall_36
85 : CHANGE Salt_175_16_L_0 U-ADHES=0 LeftWall_36
86 : CHANGE Salt_175_16_L_0 D-COHE=8 LeftWall_36
87 : CHANGE Salt_175_16_L_0 D-ADHES=0 LeftWall_36
88 : CHANGE Pa_37608_76032_L_0 U-COHE=40 LeftWall_36
89 : CHANGE Pa_37608_76032_L_0 U-ADHES=0 LeftWall_36
90 : CHANGE Pa_37608_76032_L_0 D-COHE=40 LeftWall_36
91 : CHANGE Pa_37608_76032_L_0 D-ADHES=0 LeftWall_36
92 : SETWALL LeftWall_36
93 : GEOM 0 -4
94 : SURCHARGE 0 0 0 0
95 : WATER -5.8866 0.1931 -21.2 0 0
96 : ADD WallElement_11138 WallElement_New_75260
97 : ENDSTEP
98 : STEP StageA_205794
99 : SETWALL LeftWall_36
100 : GEOM 0 -4
101 : SURCHARGE 0 0 0 0
102 : WATER -5.8866 0.1931 -21.2 0 0
103 : ENDSTEP
104 : STEP Sisma_79386
105 : SETWALL LeftWall_36
106 : GEOM 0 -4
107 : SURCHARGE 0 0 0 0
108 : WATER -5.8866 0.1931 -21.2 0 0
109 : CHANGE Rilevato_76031_14_L_0 U-KAED=0.44023 LeftWall_36
110 : CHANGE Rilevato_76031_14_L_0 U-KAEW=0.5602 LeftWall_36
111 : CHANGE Rilevato_76031_14_L_0 U-KPED=6.4658 LeftWall_36
112 : CHANGE Rilevato_76031_14_L_0 U-KPEW=6.3489 LeftWall_36
113 : CHANGE Rilevato_76031_14_L_0 D-KAED=0.34349 LeftWall_36
114 : CHANGE Rilevato_76031_14_L_0 D-KAEW=0.42099 LeftWall_36
115 : CHANGE Rilevato_76031_14_L_0 D-KPED=3.6904 LeftWall_36
116 : CHANGE Rilevato_76031_14_L_0 D-KPEW=3.3698 LeftWall_36
117 : CHANGE Ala_76024_15_L_0 U-KAED=0.98791 LeftWall_36
118 : CHANGE Ala_76024_15_L_0 U-KAEW=1.0735 LeftWall_36
119 : CHANGE Ala_76024_15_L_0 U-KPED=3.3633 LeftWall_36
120 : CHANGE Ala_76024_15_L_0 U-KPEW=3.2527 LeftWall_36
121 : CHANGE Ala_76024_15_L_0 D-KAED=0.42099 LeftWall_36
122 : CHANGE Ala_76024_15_L_0 D-KAEW=0.4918 LeftWall_36
123 : CHANGE Ala_76024_15_L_0 D-KPED=1.5596 LeftWall_36
124 : CHANGE Ala_76024_15_L_0 D-KPEW=1.0793 LeftWall_36
125 : CHANGE Salt_175_16_L_0 U-KAED=0.97226 LeftWall_36
126 : CHANGE Salt_175_16_L_0 U-KAEW=1.0495 LeftWall_36
127 : CHANGE Salt_175_16_L_0 U-KPED=3.6157 LeftWall_36
128 : CHANGE Salt_175_16_L_0 U-KPEW=3.4947 LeftWall_36
129 : CHANGE Salt_175_16_L_0 D-KAED=0.39612 LeftWall_36
130 : CHANGE Salt_175_16_L_0 D-KAEW=0.45352 LeftWall_36
131 : CHANGE Salt_175_16_L_0 D-KPED=1.7213 LeftWall_36
132 : CHANGE Salt_175_16_L_0 D-KPEW=1.395 LeftWall_36
133 : CHANGE Pa_37608_76032_L_0 U-KAED=0.97226 LeftWall_36
134 : CHANGE Pa_37608_76032_L_0 U-KAEW=1.0369 LeftWall_36
135 : CHANGE Pa_37608_76032_L_0 U-KPED=3.3894 LeftWall_36
136 : CHANGE Pa_37608_76032_L_0 U-KPEW=3.2663 LeftWall_36
137 : CHANGE Pa_37608_76032_L_0 D-KAED=0.39612 LeftWall_36
138 : CHANGE Pa_37608_76032_L_0 D-KAEW=0.44396 LeftWall_36
139 : CHANGE Pa_37608_76032_L_0 D-KPED=1.7596 LeftWall_36
140 : CHANGE Pa_37608_76032_L_0 D-KPEW=1.5022 LeftWall_36
141 : EQK USER 0.0864 0.0432 -0.0432 0 0.5 -9.2645 0.5 0 0
142 : DLOAD step LeftWall_36 -4 2.4624 0 2.4624
143 : DLOAD step LeftWall_36 -3 2.16 0 2.16
144 : DLOAD step LeftWall_36 -4 2.2453 -3 2.2453
145 : ENDSTEP

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:02                               |
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N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /	NODE	Y-COORD	Z-COORD /
1	0.0000	0.0000 /	2	0.0000	-0.20000 /	3	0.0000	-0.40000 /	4	0.0000	-0.60000 /
5	0.0000	-0.80000 /	6	0.0000	-1.0000 /	7	0.0000	-1.2000 /	8	0.0000	-1.4000 /
9	0.0000	-1.6000 /	10	0.0000	-1.8000 /	11	0.0000	-2.0000 /	12	0.0000	-2.2000 /
13	0.0000	-2.4000 /	14	0.0000	-2.6000 /	15	0.0000	-2.8000 /	16	0.0000	-3.0000 /
17	0.0000	-3.2000 /	18	0.0000	-3.4000 /	19	0.0000	-3.6000 /	20	0.0000	-3.8000 /
21	0.0000	-4.0000 /	22	0.0000	-4.2000 /	23	0.0000	-4.4000 /	24	0.0000	-4.6000 /
25	0.0000	-4.8000 /	26	0.0000	-5.0000 /	27	0.0000	-5.2000 /	28	0.0000	-5.4000 /
29	0.0000	-5.6000 /	30	0.0000	-5.8000 /	31	0.0000	-6.0000 /	32	0.0000	-6.2000 /
33	0.0000	-6.4000 /	34	0.0000	-6.6000 /	35	0.0000	-6.8000 /	36	0.0000	-7.0000 /
37	0.0000	-7.2000 /	38	0.0000	-7.4000 /	39	0.0000	-7.6000 /	40	0.0000	-7.8000 /
41	0.0000	-8.0000 /	42	0.0000	-8.2000 /	43	0.0000	-8.4000 /	44	0.0000	-8.6000 /
45	0.0000	-8.8000 /	46	0.0000	-9.0000 /	47	0.0000	-9.2000 /	48	0.0000	-9.4000 /
49	0.0000	-9.6000 /	50	0.0000	-9.8000 /	51	0.0000	-10.0000 /	52	0.0000	-10.200 /
53	0.0000	-10.400 /	54	0.0000	-10.600 /	55	0.0000	-10.800 /	56	0.0000	-11.000 /
57	0.0000	-11.200 /	58	0.0000	-11.400 /	59	0.0000	-11.600 /	60	0.0000	-11.800 /
61	0.0000	-12.000 /	62	0.0000	-12.200 /	63	0.0000	-12.400 /	64	0.0000	-12.600 /
65	0.0000	-12.800 /	66	0.0000	-13.000 /	67	0.0000	-13.200 /	68	0.0000	-13.400 /
69	0.0000	-13.600 /	70	0.0000	-13.800 /	71	0.0000	-14.000 /	72	0.0000	-14.200 /
73	0.0000	-14.400 /	74	0.0000	-14.600 /	75	0.0000	-14.800 /	76	0.0000	-15.000 /
77	0.0000	-15.200 /	78	0.0000	-15.400 /	79	0.0000	-15.600 /	80	0.0000	-15.800 /
81	0.0000	-16.000 /	82	0.0000	-16.200 /	83	0.0000	-16.400 /	84	0.0000	-16.600 /
85	0.0000	-16.800 /	86	0.0000	-17.000 /	87	0.0000	-17.200 /	88	0.0000	-17.400 /
89	0.0000	-17.600 /	90	0.0000	-17.800 /	91	0.0000	-18.000 /	92	0.0000	-18.200 /
93	0.0000	-18.400 /	94	0.0000	-18.600 /	95	0.0000	-18.800 /	96	0.0000	-19.000 /
97	0.0000	-19.200 /	98	0.0000	-19.400 /	99	0.0000	-19.600 /	100	0.0000	-19.800 /
101	0.0000	-20.000 /	102	0.0000	-20.200 /	103	0.0000	-20.400 /	104	0.0000	-20.600 /
105	0.0000	-20.800 /	106	0.0000	-21.000 /	107	0.0000	-21.200 /			

39	39	2	0.2000	0.000	0.000	0.000	1.000
40	40	2	0.2000	0.000	0.000	0.000	1.000
41	41	2	0.2000	0.000	0.000	0.000	1.000
42	42	2	0.2000	0.000	0.000	0.000	1.000
43	43	2	0.2000	0.000	0.000	0.000	1.000
44	44	2	0.2000	0.000	0.000	0.000	1.000
45	45	2	0.2000	0.000	0.000	0.000	1.000
46	46	2	0.2000	0.000	0.000	0.000	1.000
47	47	2	0.2000	0.000	0.000	0.000	1.000
48	48	2	0.2000	0.000	0.000	0.000	1.000
49	49	2	0.2000	0.000	0.000	0.000	1.000
50	50	2	0.2000	0.000	0.000	0.000	1.000
51	51	2	0.2000	0.000	0.000	0.000	1.000
52	52	2	0.2000	0.000	0.000	0.000	1.000
53	53	2	0.2000	0.000	0.000	0.000	1.000
54	54	2	0.2000	0.000	0.000	0.000	1.000
55	55	2	0.2000	0.000	0.000	0.000	1.000
56	56	2	0.2000	0.000	0.000	0.000	1.000
57	57	2	0.2000	0.000	0.000	0.000	1.000
58	58	2	0.2000	0.000	0.000	0.000	1.000
59	59	2	0.2000	0.000	0.000	0.000	1.000
60	60	2	0.2000	0.000	0.000	0.000	1.000
61	61	2	0.2000	0.000	0.000	0.000	1.000
62	62	3	0.2000	0.000	0.000	0.000	1.000
63	63	3	0.2000	0.000	0.000	0.000	1.000
64	64	3	0.2000	0.000	0.000	0.000	1.000
65	65	3	0.2000	0.000	0.000	0.000	1.000
66	66	3	0.2000	0.000	0.000	0.000	1.000
67	67	3	0.2000	0.000	0.000	0.000	1.000
68	68	3	0.2000	0.000	0.000	0.000	1.000
69	69	3	0.2000	0.000	0.000	0.000	1.000
70	70	3	0.2000	0.000	0.000	0.000	1.000
71	71	3	0.2000	0.000	0.000	0.000	1.000
72	72	4	0.2000	0.000	0.000	0.000	1.000
73	73	4	0.2000	0.000	0.000	0.000	1.000
74	74	4	0.2000	0.000	0.000	0.000	1.000
75	75	4	0.2000	0.000	0.000	0.000	1.000
76	76	4	0.2000	0.000	0.000	0.000	1.000
77	77	4	0.2000	0.000	0.000	0.000	1.000
78	78	4	0.2000	0.000	0.000	0.000	1.000
79	79	4	0.2000	0.000	0.000	0.000	1.000
80	80	4	0.2000	0.000	0.000	0.000	1.000
81	81	4	0.2000	0.000	0.000	0.000	1.000
82	82	4	0.2000	0.000	0.000	0.000	1.000
83	83	4	0.2000	0.000	0.000	0.000	1.000
84	84	4	0.2000	0.000	0.000	0.000	1.000
85	85	4	0.2000	0.000	0.000	0.000	1.000
86	86	4	0.2000	0.000	0.000	0.000	1.000
87	87	4	0.2000	0.000	0.000	0.000	1.000
88	88	4	0.2000	0.000	0.000	0.000	1.000
89	89	4	0.2000	0.000	0.000	0.000	1.000
90	90	4	0.2000	0.000	0.000	0.000	1.000
91	91	4	0.2000	0.000	0.000	0.000	1.000
92	92	4	0.2000	0.000	0.000	0.000	1.000
93	93	4	0.2000	0.000	0.000	0.000	1.000
94	94	4	0.2000	0.000	0.000	0.000	1.000
95	95	4	0.2000	0.000	0.000	0.000	1.000
96	96	4	0.2000	0.000	0.000	0.000	1.000
97	97	4	0.2000	0.000	0.000	0.000	1.000
98	98	4	0.2000	0.000	0.000	0.000	1.000
99	99	4	0.2000	0.000	0.000	0.000	1.000
100	100	4	0.2000	0.000	0.000	0.000	1.000
101	101	4	0.2000	0.000	0.000	0.000	1.000
102	102	4	0.2000	0.000	0.000	0.000	1.000
103	103	4	0.2000	0.000	0.000	0.000	1.000
104	104	4	0.2000	0.000	0.000	0.000	1.000
105	105	4	0.2000	0.000	0.000	0.000	1.000
106	106	4	0.2000	0.000	0.000	0.000	1.000
107	107	4	0.1000	0.000	0.000	0.000	1.000

39	39	2	0.2000	0.000	0.000	0.000	2.000
40	40	2	0.2000	0.000	0.000	0.000	2.000
41	41	2	0.2000	0.000	0.000	0.000	2.000
42	42	2	0.2000	0.000	0.000	0.000	2.000
43	43	2	0.2000	0.000	0.000	0.000	2.000
44	44	2	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000
46	46	2	0.2000	0.000	0.000	0.000	2.000
47	47	2	0.2000	0.000	0.000	0.000	2.000
48	48	2	0.2000	0.000	0.000	0.000	2.000
49	49	2	0.2000	0.000	0.000	0.000	2.000
50	50	2	0.2000	0.000	0.000	0.000	2.000
51	51	2	0.2000	0.000	0.000	0.000	2.000
52	52	2	0.2000	0.000	0.000	0.000	2.000
53	53	2	0.2000	0.000	0.000	0.000	2.000
54	54	2	0.2000	0.000	0.000	0.000	2.000
55	55	2	0.2000	0.000	0.000	0.000	2.000
56	56	2	0.2000	0.000	0.000	0.000	2.000
57	57	2	0.2000	0.000	0.000	0.000	2.000
58	58	2	0.2000	0.000	0.000	0.000	2.000
59	59	2	0.2000	0.000	0.000	0.000	2.000
60	60	2	0.2000	0.000	0.000	0.000	2.000
61	61	2	0.2000	0.000	0.000	0.000	2.000
62	62	3	0.2000	0.000	0.000	0.000	2.000
63	63	3	0.2000	0.000	0.000	0.000	2.000
64	64	3	0.2000	0.000	0.000	0.000	2.000
65	65	3	0.2000	0.000	0.000	0.000	2.000
66	66	3	0.2000	0.000	0.000	0.000	2.000
67	67	3	0.2000	0.000	0.000	0.000	2.000
68	68	3	0.2000	0.000	0.000	0.000	2.000
69	69	3	0.2000	0.000	0.000	0.000	2.000
70	70	3	0.2000	0.000	0.000	0.000	2.000
71	71	3	0.2000	0.000	0.000	0.000	2.000
72	72	4	0.2000	0.000	0.000	0.000	2.000
73	73	4	0.2000	0.000	0.000	0.000	2.000
74	74	4	0.2000	0.000	0.000	0.000	2.000
75	75	4	0.2000	0.000	0.000	0.000	2.000
76	76	4	0.2000	0.000	0.000	0.000	2.000
77	77	4	0.2000	0.000	0.000	0.000	2.000
78	78	4	0.2000	0.000	0.000	0.000	2.000
79	79	4	0.2000	0.000	0.000	0.000	2.000
80	80	4	0.2000	0.000	0.000	0.000	2.000
81	81	4	0.2000	0.000	0.000	0.000	2.000
82	82	4	0.2000	0.000	0.000	0.000	2.000
83	83	4	0.2000	0.000	0.000	0.000	2.000
84	84	4	0.2000	0.000	0.000	0.000	2.000
85	85	4	0.2000	0.000	0.000	0.000	2.000
86	86	4	0.2000	0.000	0.000	0.000	2.000
87	87	4	0.2000	0.000	0.000	0.000	2.000
88	88	4	0.2000	0.000	0.000	0.000	2.000
89	89	4	0.2000	0.000	0.000	0.000	2.000
90	90	4	0.2000	0.000	0.000	0.000	2.000
91	91	4	0.2000	0.000	0.000	0.000	2.000
92	92	4	0.2000	0.000	0.000	0.000	2.000
93	93	4	0.2000	0.000	0.000	0.000	2.000
94	94	4	0.2000	0.000	0.000	0.000	2.000
95	95	4	0.2000	0.000	0.000	0.000	2.000
96	96	4	0.2000	0.000	0.000	0.000	2.000
97	97	4	0.2000	0.000	0.000	0.000	2.000
98	98	4	0.2000	0.000	0.000	0.000	2.000
99	99	4	0.2000	0.000	0.000	0.000	2.000
100	100	4	0.2000	0.000	0.000	0.000	2.000
101	101	4	0.2000	0.000	0.000	0.000	2.000
102	102	4	0.2000	0.000	0.000	0.000	2.000
103	103	4	0.2000	0.000	0.000	0.000	2.000
104	104	4	0.2000	0.000	0.000	0.000	2.000
105	105	4	0.2000	0.000	0.000	0.000	2.000
106	106	4	0.2000	0.000	0.000	0.000	2.000
107	107	4	0.1000	0.000	0.000	0.000	2.000

48	63	64	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
49	64	65	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
50	65	66	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
51	66	67	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
52	67	68	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
53	68	69	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
54	69	70	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
55	70	71	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
56	71	72	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
57	72	73	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
58	73	74	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
59	74	75	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
60	75	76	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
61	76	77	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
62	77	78	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
63	78	79	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
64	79	80	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
65	80	81	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
66	81	82	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
67	82	83	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
68	83	84	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
69	84	85	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
70	85	86	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
71	86	87	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
72	87	88	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
73	88	89	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
74	89	90	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
75	90	91	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
76	91	92	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
77	92	93	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
78	93	94	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
79	94	95	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
80	95	96	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
81	96	97	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
82	97	98	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
83	98	99	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
84	99	100	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
85	100	101	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
86	101	102	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
87	102	103	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
88	103	104	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
89	104	105	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
90	105	106	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000
91	106	107	1	0.000	0.000	1.206	1.040	0.1462	25.99	0.000	0.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:35:02          |
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NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5
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NO. OF GENERATED NODAL FORCES 21

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
21	-.4000E+01	0.2462000E+00 /	20	-.3800E+01	0.4924000E+00 /	19	-.3600E+01	0.4924000E+00 /
18	-.3400E+01	0.4924000E+00 /	17	-.3200E+01	0.4924000E+00 /	16	-.3000E+01	0.4924000E+00 /
15	-.2800E+01	0.4924000E+00 /	14	-.2600E+01	0.4924000E+00 /	13	-.2400E+01	0.4924000E+00 /
12	-.2200E+01	0.4924000E+00 /	11	-.2000E+01	0.4924000E+00 /	10	-.1800E+01	0.4924000E+00 /
9	-.1600E+01	0.4924000E+00 /	8	-.1400E+01	0.4924000E+00 /	7	-.1200E+01	0.4924000E+00 /
6	-.1000E+01	0.4924000E+00 /	5	-.8000E+00	0.4924000E+00 /	4	-.6000E+00	0.4924000E+00 /
3	-.4000E+00	0.4924000E+00 /	2	-.2000E+00	0.4924000E+00 /	1	0.0000E+00	0.2462000E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 9.8480

PROCESSING DISTRIBUTED LOADS CARD NO. 2

AT Y-COORD 0.000 Z-COORD -3.000 PRESSURE 2.160

Z-COORD 0.000 PRESSURE 2.160

L.CURVE 3

NO. OF GENERATED NODAL FORCES 16

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
16	-.3000E+01	0.2160000E+00 /	15	-.2800E+01	0.4320000E+00 /	14	-.2600E+01	0.4320000E+00 /
13	-.2400E+01	0.4320000E+00 /	12	-.2200E+01	0.4320000E+00 /	11	-.2000E+01	0.4320000E+00 /
10	-.1800E+01	0.4320000E+00 /	9	-.1600E+01	0.4320000E+00 /	8	-.1400E+01	0.4320000E+00 /
7	-.1200E+01	0.4320000E+00 /	6	-.1000E+01	0.4320000E+00 /	5	-.8000E+00	0.4320000E+00 /
4	-.6000E+00	0.4320000E+00 /	3	-.4000E+00	0.4320000E+00 /	2	-.2000E+00	0.4320000E+00 /
1	0.0000E+00	0.2160000E+00 /						

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 6.4800

PROCESSING DISTRIBUTED LOADS CARD NO. 3

AT Y-COORD 0.000 Z-COORD -4.000 PRESSURE 2.245

Z-COORD -3.000 PRESSURE 2.245

L.CURVE 3

NO. OF GENERATED NODAL FORCES 6

NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /	NODE	Z-LVL	FORCE /
21	-.4000E+01	0.2245000E+00 /	20	-.3800E+01	0.4490000E+00 /	19	-.3600E+01	0.4490000E+00 /
18	-.3400E+01	0.4490000E+00 /	17	-.3200E+01	0.4490000E+00 /	16	-.3000E+01	0.2245000E+00 /

OVERALL APPLIED Y FORCE FOR CURRENT DISTRIBUTED LOAD 2.2450

NO. OF DISTRIBUTED LOAD CARDS 3

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:02           |
+-----+

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L O A D      B A L A N C E

STEP  1  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  1  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP  2  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          0.0000000
STEP  2  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

STEP  3  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F          18.573000
STEP  3  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F           0.0000000

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LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:02          |
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NO. OF LAYERS ..... 4
NO. OF DATA PER LAYER..... 160
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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:35:02                                                                                               |
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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO.	1	NAME	= 10.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= 15.000	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	= 29.256	WALL NO.	1
ITEM NO.	9	U-FRICT	= 35.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.34800	WALL NO.	1
ITEM NO.	11	U-KP	= 6.2270	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 40000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 40000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	= 29.256	WALL NO.	1
ITEM NO.	89	D-FRICT	= 35.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.30000	WALL NO.	1
ITEM NO.	91	D-KP	= 4.1020	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 1

ITEM NO.	1	NAME	= 11.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -4.0000	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 1.6000	WALL NO.	1
ITEM NO.	8	U-COHE	= 2.0000	WALL NO.	2
ITEM NO.	9	U-FRICT	= 20.458	WALL NO.	1
ITEM NO.	9	U-FRICT	= 25.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.87800	WALL NO.	1
ITEM NO.	11	U-KP	= 3.2700	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 30000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 90000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	= 1.6000	WALL NO.	1
ITEM NO.	88	D-COHE	= 2.0000	WALL NO.	2
ITEM NO.	89	D-FRICT	= 20.458	WALL NO.	1
ITEM NO.	89	D-FRICT	= 25.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.38500	WALL NO.	1
ITEM NO.	91	D-KP	= 1.8940	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 1

ITEM NO.	1	NAME	= 12.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -12.120	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 20.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 10.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 8.0000	WALL NO.	1
ITEM NO.	8	U-COHE	= 10.000	WALL NO.	2
ITEM NO.	9	U-FRICT	= 22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	= 27.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.85800	WALL NO.	1
ITEM NO.	11	U-KP	= 3.5420	WALL NO.	1

ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.10300E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.30900E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	58	U-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	60	U-TZDELTA	>= 25.000	(BOTH WALLS)	
ITEM NO.	61	U-TZALPHA	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	88	D-COHE	>= 10.000	WALL NO.	2
ITEM NO.	89	D-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	90	D-KA	>= 0.36000	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.0630	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	138	D-TZKZ	>= 10000.	(BOTH WALLS)	
ITEM NO.	140	D-TZDELTA	>= 25.000	(BOTH WALLS)	
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 1

ITEM NO.	1	NAME	>= 13.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= -14.120	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 22.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 12.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	>= 40.000	WALL NO.	1
ITEM NO.	8	U-COHE	>= 50.000	WALL NO.	2
ITEM NO.	9	U-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	10	U-KA	>= 0.71800	WALL NO.	1
ITEM NO.	11	U-KP	>= 3.3570	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPHA	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	>= 40.000	WALL NO.	1
ITEM NO.	88	D-COHE	>= 50.000	WALL NO.	2
ITEM NO.	89	D-FRICT	>= 22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	>= 27.000	WALL NO.	2
ITEM NO.	90	D-KA	>= 0.36000	WALL NO.	1
ITEM NO.	91	D-KP	>= 2.0980	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO.	1	NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	>= 15.000	(BOTH WALLS)	
ITEM NO.	4	WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	>= 29.256	WALL NO.	1
ITEM NO.	9	U-FRICT	>= 35.000	WALL NO.	2
ITEM NO.	10	U-KA	>= 0.34800	WALL NO.	1
ITEM NO.	11	U-KP	>= 6.2270	WALL NO.	1
ITEM NO.	12	K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	>= 40000.	(BOTH WALLS)	
ITEM NO.	18	EUR	>= 40000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPHA	>= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	>= 29.256	WALL NO.	1
ITEM NO.	89	D-FRICT	>= 35.000	WALL NO.	2
ITEM NO.	90	D-KA	>= 0.30000	WALL NO.	1
ITEM NO.	91	D-KP	>= 4.1020	WALL NO.	1
ITEM NO.	107	D-PERM	>= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPHA	>= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 2

ITEM NO.	1	NAME	=	11.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	=	1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	=	-4.0000	(BOTH WALLS)	
ITEM NO.	4	WALL	=	1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	=	19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	=	9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	=	10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	=	1.6000	WALL NO.	1
ITEM NO.	8	U-COHE	=	2.0000	WALL NO.	2
ITEM NO.	9	U-FRICT	=	20.458	WALL NO.	1
ITEM NO.	9	U-FRICT	=	25.000	WALL NO.	2
ITEM NO.	10	U-KA	=	0.87800	WALL NO.	1
ITEM NO.	11	U-KP	=	3.2700	WALL NO.	1
ITEM NO.	12	K0-NC	=	0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	=	0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	=	1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	=	1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	=	30000.	(BOTH WALLS)	
ITEM NO.	18	EUR	=	90000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	=	0.10000E-04	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	=	0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	=	1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	=	0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	=	1.6000	WALL NO.	1
ITEM NO.	88	D-COHE	=	2.0000	WALL NO.	2
ITEM NO.	89	D-FRICT	=	20.458	WALL NO.	1
ITEM NO.	89	D-FRICT	=	25.000	WALL NO.	2
ITEM NO.	90	D-KA	=	0.38500	WALL NO.	1
ITEM NO.	91	D-KP	=	1.8940	WALL NO.	1
ITEM NO.	107	D-PERM	=	0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	=	0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 2

ITEM NO.	1	NAME	=	12.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	=	1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	=	-12.120	(BOTH WALLS)	
ITEM NO.	4	WALL	=	1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	=	20.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	=	10.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	=	10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	=	8.0000	WALL NO.	1
ITEM NO.	8	U-COHE	=	10.000	WALL NO.	2
ITEM NO.	9	U-FRICT	=	22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	=	27.000	WALL NO.	2
ITEM NO.	10	U-KA	=	0.85800	WALL NO.	1
ITEM NO.	11	U-KP	=	3.5420	WALL NO.	1
ITEM NO.	12	K0-NC	=	0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	=	0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	=	1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	=	1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	=	0.10300E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	=	0.30900E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	=	0.10000E-04	(BOTH WALLS)	
ITEM NO.	58	U-TZKZ	=	10000.	(BOTH WALLS)	
ITEM NO.	60	U-TZDELTA	=	25.000	(BOTH WALLS)	
ITEM NO.	61	U-TZALPH	=	0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	=	1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	=	0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	=	8.0000	WALL NO.	1
ITEM NO.	88	D-COHE	=	10.000	WALL NO.	2
ITEM NO.	89	D-FRICT	=	22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	=	27.000	WALL NO.	2
ITEM NO.	90	D-KA	=	0.36000	WALL NO.	1
ITEM NO.	91	D-KP	=	2.0630	WALL NO.	1
ITEM NO.	107	D-PERM	=	0.10000E-04	(BOTH WALLS)	
ITEM NO.	138	D-TZKZ	=	10000.	(BOTH WALLS)	
ITEM NO.	140	D-TZDELTA	=	25.000	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	=	0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 2

ITEM NO.	1	NAME	=	13.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	=	1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	=	-14.120	(BOTH WALLS)	
ITEM NO.	4	WALL	=	1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	=	22.500	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	=	12.500	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	=	10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	=	40.000	WALL NO.	1
ITEM NO.	8	U-COHE	=	50.000	WALL NO.	2
ITEM NO.	9	U-FRICT	=	22.177	WALL NO.	1
ITEM NO.	9	U-FRICT	=	27.000	WALL NO.	2
ITEM NO.	10	U-KA	=	0.71800	WALL NO.	1
ITEM NO.	11	U-KP	=	3.3570	WALL NO.	1
ITEM NO.	12	K0-NC	=	0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	=	0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	=	1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	=	1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	=	0.13500E+06	(BOTH WALLS)	
ITEM NO.	18	EUR	=	0.40500E+06	(BOTH WALLS)	
ITEM NO.	27	U-PERM	=	0.10000E-04	(BOTH WALLS)	

ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	= 40.000	WALL NO.	1
ITEM NO.	88	D-COHE	= 50.000	WALL NO.	2
ITEM NO.	89	D-FRICT	= 22.177	WALL NO.	1
ITEM NO.	89	D-FRICT	= 27.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.36000	WALL NO.	1
ITEM NO.	91	D-KP	= 2.0980	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO.	1	NAME	= 10.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= 15.000	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	9	U-FRICT	= 29.256	WALL NO.	1
ITEM NO.	9	U-FRICT	= 35.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.34800	WALL NO.	1
ITEM NO.	11	U-KP	= 6.2270	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 40000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 40000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	= 0.44023	WALL NO.	1
ITEM NO.	48	U-KAEW	= 0.56020	WALL NO.	1
ITEM NO.	49	U-KPED	= 6.4658	WALL NO.	1
ITEM NO.	50	U-KPEW	= 6.3489	WALL NO.	1
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	89	D-FRICT	= 29.256	WALL NO.	1
ITEM NO.	89	D-FRICT	= 35.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.30000	WALL NO.	1
ITEM NO.	91	D-KP	= 4.1020	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	= 0.34349	WALL NO.	1
ITEM NO.	128	D-KAEW	= 0.42099	WALL NO.	1
ITEM NO.	129	D-KPED	= 3.6904	WALL NO.	1
ITEM NO.	130	D-KPEW	= 3.3698	WALL NO.	1
ITEM NO.	141	D-TZALPH	= 0.50000	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 3

ITEM NO.	1	NAME	= 11.000	(BOTH WALLS)	
ITEM NO.	2	NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	3	LEVEL	= -4.0000	(BOTH WALLS)	
ITEM NO.	4	WALL	= 1.0000	(BOTH WALLS)	
ITEM NO.	5	GAMMAD	= 19.000	(BOTH WALLS)	
ITEM NO.	6	GAMMAB	= 9.0000	(BOTH WALLS)	
ITEM NO.	7	GAMMAW	= 10.000	(BOTH WALLS)	
ITEM NO.	8	U-COHE	= 1.6000	WALL NO.	1
ITEM NO.	8	U-COHE	= 2.0000	WALL NO.	2
ITEM NO.	9	U-FRICT	= 20.458	WALL NO.	1
ITEM NO.	9	U-FRICT	= 25.000	WALL NO.	2
ITEM NO.	10	U-KA	= 0.87800	WALL NO.	1
ITEM NO.	11	U-KP	= 3.2700	WALL NO.	1
ITEM NO.	12	K0-NC	= 0.50000	(BOTH WALLS)	
ITEM NO.	13	NEXP	= 0.50000	(BOTH WALLS)	
ITEM NO.	14	OCR	= 1.0000	(BOTH WALLS)	
ITEM NO.	16	MODEL	= 1.0000	(BOTH WALLS)	
ITEM NO.	17	EVC	= 30000.	(BOTH WALLS)	
ITEM NO.	18	EUR	= 90000.	(BOTH WALLS)	
ITEM NO.	27	U-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	47	U-KAED	= 0.98791	WALL NO.	1
ITEM NO.	48	U-KAEW	= 1.0735	WALL NO.	1
ITEM NO.	49	U-KPED	= 3.3633	WALL NO.	1
ITEM NO.	50	U-KPEW	= 3.2527	WALL NO.	1
ITEM NO.	61	U-TZALPH	= 0.50000	(BOTH WALLS)	
ITEM NO.	82	D-NATURE	= 1.0000	(BOTH WALLS)	
ITEM NO.	83	D-LEVEL	= 0.0000	(BOTH WALLS)	
ITEM NO.	88	D-COHE	= 1.6000	WALL NO.	1
ITEM NO.	88	D-COHE	= 2.0000	WALL NO.	2
ITEM NO.	89	D-FRICT	= 20.458	WALL NO.	1
ITEM NO.	89	D-FRICT	= 25.000	WALL NO.	2
ITEM NO.	90	D-KA	= 0.38500	WALL NO.	1
ITEM NO.	91	D-KP	= 1.8940	WALL NO.	1
ITEM NO.	107	D-PERM	= 0.10000E-04	(BOTH WALLS)	
ITEM NO.	127	D-KAED	= 0.42099	WALL NO.	1
ITEM NO.	128	D-KAEW	= 0.49180	WALL NO.	1
ITEM NO.	129	D-KPED	= 1.5596	WALL NO.	1

ITEM NO. 130<D-KPEW >= 1.0793 WALL NO. 1
 ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 3 FOR STEP NO. 3

ITEM NO. 1<NAME >= 12.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.120 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.500 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.500 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 8.0000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 10.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 22.177 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 27.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.85800 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.5420 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 0.10300E+06 (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.30900E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 47<U-KAED >= 0.97226 WALL NO. 1
 ITEM NO. 48<U-KAEW >= 1.0495 WALL NO. 1
 ITEM NO. 49<U-KPED >= 3.6157 WALL NO. 1
 ITEM NO. 50<U-KPEW >= 3.4947 WALL NO. 1
 ITEM NO. 58<U-TZKZ >= 10000. (BOTH WALLS)
 ITEM NO. 60<U-TZDELTA>= 25.000 (BOTH WALLS)
 ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
 ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 88<D-COHE >= 8.0000 WALL NO. 1
 ITEM NO. 88<D-COHE >= 10.000 WALL NO. 2
 ITEM NO. 89<D-FRICT >= 22.177 WALL NO. 1
 ITEM NO. 89<D-FRICT >= 27.000 WALL NO. 2
 ITEM NO. 90<D-KA >= 0.36000 WALL NO. 1
 ITEM NO. 91<D-KP >= 2.0630 WALL NO. 1
 ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 127<D-KAED >= 0.39612 WALL NO. 1
 ITEM NO. 128<D-KAEW >= 0.45352 WALL NO. 1
 ITEM NO. 129<D-KPED >= 1.7213 WALL NO. 1
 ITEM NO. 130<D-KPEW >= 1.3950 WALL NO. 1
 ITEM NO. 138<D-TZKZ >= 10000. (BOTH WALLS)
 ITEM NO. 140<D-TZDELTA>= 25.000 (BOTH WALLS)
 ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 4 FOR STEP NO. 3

ITEM NO. 1<NAME >= 13.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -14.120 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 22.500 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 12.500 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 40.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 50.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 22.177 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 27.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.71800 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.3570 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 0.13500E+06 (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.40500E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 47<U-KAED >= 0.97226 WALL NO. 1
 ITEM NO. 48<U-KAEW >= 1.0369 WALL NO. 1
 ITEM NO. 49<U-KPED >= 3.3894 WALL NO. 1
 ITEM NO. 50<U-KPEW >= 3.2663 WALL NO. 1
 ITEM NO. 61<U-TZALPH>= 0.50000 (BOTH WALLS)
 ITEM NO. 82<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 83<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 88<D-COHE >= 40.000 WALL NO. 1
 ITEM NO. 88<D-COHE >= 50.000 WALL NO. 2
 ITEM NO. 89<D-FRICT >= 22.177 WALL NO. 1
 ITEM NO. 89<D-FRICT >= 27.000 WALL NO. 2
 ITEM NO. 90<D-KA >= 0.36000 WALL NO. 1
 ITEM NO. 91<D-KP >= 2.0980 WALL NO. 1
 ITEM NO. 107<D-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 127<D-KAED >= 0.39612 WALL NO. 1
 ITEM NO. 128<D-KAEW >= 0.44396 WALL NO. 1
 ITEM NO. 129<D-KPED >= 1.7596 WALL NO. 1
 ITEM NO. 130<D-KPEW >= 1.5022 WALL NO. 1
 ITEM NO. 141<D-TZALPH>= 0.50000 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 12 VALUES

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:35:02                            |
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PHASE DESCRIPTORS

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STEP NO.      1 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30
Z-PC           0.000            0.000
Z-EXCAVATION   -4.000            0.000
Z-WATER_TABLE  -5.887            -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000            0.000
ZQ             0.000            0.000
DZW_OF_THE_WATER_TABLE  0.1931            0.000
QS_ON_THE_EXCAVATION_SIDE  0.000            0.000
ZQS           0.000            -0.9990E+30
ZCUT          0.000            0.000
BALANCE LEVEL FOR PORE PRESSURES  -21.20            -21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)  0.000            0.000
PORE_UPDATE_FLAG  0.000            0.000
PORE_TAB._FLAG (gt.0= use tabs)  0.000            0.000
lateral thrusts reduction elevatio  0.000            0.000
Downhill reduction factor for effe  0.000            0.000
Downhill reduction factor for pore  0.000            0.000
Uphill reduction factor for effect  0.000            0.000
Uphill reduction factor for pore p  0.000            0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]    0.000            0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]    0.000            0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]    0.000            0.000
UPHILL BETA ANGLE (SLOPE) [deg]     0.000            0.000
UPHILL DELTA/PHI RATIO              0.000            0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]   0.000            0.000
DOWNHILL DELTA/PHI RATIO            0.000            0.000
DYN.WATER BEHAVIOUR                0.000            0.000
Excess pore pressure RATIO Ru       0.000            0.000
SEISMIC PRESSURE LOWER VALUE        0.000            0.000
SEISMIC PRESSURE UPPER VALUE        0.000            0.000
SEISMIC PRESSURE LOWER LEVEL        0.000            0.000
SEISMIC PRESSURE UPPER LEVEL        0.000            0.000

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=====end of step 1

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STEP NO.      2 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30
Z-PC           0.000            0.000
Z-EXCAVATION   -4.000            0.000
Z-WATER_TABLE  -5.887            -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000            0.000
ZQ             0.000            0.000
DZW_OF_THE_WATER_TABLE  0.1931            0.000
QS_ON_THE_EXCAVATION_SIDE  0.000            0.000
ZQS           0.000            -0.9990E+30
ZCUT          0.000            0.000
BALANCE LEVEL FOR PORE PRESSURES  -21.20            -21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)  0.000            0.000
PORE_UPDATE_FLAG  0.000            0.000
PORE_TAB._FLAG (gt.0= use tabs)  0.000            0.000
lateral thrusts reduction elevatio  0.000            0.000
Downhill reduction factor for effe  0.000            0.000
Downhill reduction factor for pore  0.000            0.000
Uphill reduction factor for effect  0.000            0.000
Uphill reduction factor for pore p  0.000            0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]    0.000            0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]    0.000            0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]    0.000            0.000
UPHILL BETA ANGLE (SLOPE) [deg]     0.000            0.000
UPHILL DELTA/PHI RATIO              0.000            0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]   0.000            0.000
DOWNHILL DELTA/PHI RATIO            0.000            0.000
DYN.WATER BEHAVIOUR                0.000            0.000
Excess pore pressure RATIO Ru       0.000            0.000
SEISMIC PRESSURE LOWER VALUE        0.000            0.000
SEISMIC PRESSURE UPPER VALUE        0.000            0.000
SEISMIC PRESSURE LOWER LEVEL        0.000            0.000
SEISMIC PRESSURE UPPER LEVEL        0.000            0.000

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=====end of step 2

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STEP NO.      3 no. of subincrements      1
                LEFT WALL      RIGHT WALL
Y              0.000            -0.9990E+30

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Z-PC	0.000	0.000
Z-EXCAVATION	-4.000	0.000
Z-WATER_TABLE	-5.887	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.1931	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-21.20	-21.20
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	-0.8640E-01	0.000
	MANUAL	
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.4320E-01	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	-0.4320E-01	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.5000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	-9.264	0.000
DOWNHILL DELTA/PHI RATIO	0.5000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

=====end of step 3

LEFT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-21.20000
UPPER LEVEL	0.00000


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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*  |
|                                                                                               |
|                                                                                               |
|                               ParatiePlus                                                    |
|                               Exe Time :28 January 2022  15:35:02                            |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 1

INPUT DATA FOR INITIAL STRESS SET NO. 1
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 1.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 1.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 11.400000000000000
 FOUNDATION WIDTH (B) 9.900000000000000
 ZETA-F..... 4.700000000000000
 Q-F 40.000000000000000
 BETA 45.000000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 5874

NO. OF D.P.W FOR THIS AREA 16376
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 5609. REMNOR= 0.000 RATIO =0.1783 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1763E+06 RDR = 0.000
 RATIO=0.1783 RATIO= 0.000
 MAX UN= 8.228 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 7398. REMNOR=0.8153E-17 RATIO =0.2048 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1763E+06 RDR = 0.000
 RATIO=0.2048 RATIO= 0.000
 MAX UN= 17.26 IEQ= 143 NODE 72 DOF 1 Y-DISPL.F
 MIN UN=-.3880 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 2402. REMNOR=0.1504E-15 RATIO =0.1167 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1763E+06 RDR = 0.000
 RATIO=0.1167 RATIO= 0.000
 MAX UN= 19.79 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
 MIN UN=-.8003 IEQ= 211 NODE 106 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 520.0 REMNOR=0.2137E-15 RATIO =0.5430E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.1763E+06 RDR = 0.000
 RATIO=0.5430E-01 RATIO= 0.000
 MAX UN= 9.826 IEQ= 85 NODE 43 DOF 1 Y-DISPL.F
 MIN UN=-4.071 IEQ= 211 NODE 106 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1763E+06 RIMNOR= 0.000
 RENORM= 26.07 REMNOR=0.7694E-16 RATIO =0.1216E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 58.02 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000

RDT =0.1763E+06 RDR = 0.000
RATIOT=0.1216E-01 RATIO= 0.000
MAX UN= 3.277 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
MIN UN=-2.600 IEQ= 205 NODE 103 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1763E+06 RIMNOR= 0.000
RENORM=0.1459E-13 REMNOR=0.5139E-16 RATIO =0.2877E-09 TOLER =0.1000E-03 CONVERGED !
RFMAX = 58.02 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1763E+06 RDR = 0.000
RATIOT=0.2877E-09 RATIO= 0.000
MAX UN=0.4611E-07 IEQ= 47 NODE 24 DOF 1 Y-DISPL.F
MIN UN=-.4258E-07 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
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New Project
SOLUTION REACHED USING      6 ITERATIONS ON    40

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P R I N T   O U T   F O R   T I M E   S T E P   1   ( AT TIME   1.000   ) SUBINCREMENT 00001/00001

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PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

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	Y-DISPL.F	X-ROT. F
	02	04
1	4.7139805E-02	-3.3436985E-03
2	4.6471066E-02	-3.3436984E-03
3	4.5802326E-02	-3.3436960E-03
4	4.5133588E-02	-3.3436851E-03
5	4.4464853E-02	-3.3436555E-03
6	4.3796128E-02	-3.3435935E-03
7	4.3127419E-02	-3.3434813E-03
8	4.2458740E-02	-3.3432973E-03
9	4.1790107E-02	-3.3430158E-03
10	4.1121542E-02	-3.3426077E-03
11	4.0453074E-02	-3.3420396E-03
12	3.9784739E-02	-3.3412745E-03
13	3.9116580E-02	-3.3402714E-03
14	3.8448650E-02	-3.3389854E-03
15	3.7781008E-02	-3.3373678E-03
16	3.7113728E-02	-3.3353661E-03
17	3.6446790E-02	-3.3339737E-03
18	3.5780158E-02	-3.3322956E-03
19	3.5113893E-02	-3.3302954E-03
20	3.4448064E-02	-3.3279340E-03
21	3.3782746E-02	-3.3251705E-03
22	3.3118027E-02	-3.3219339E-03
23	3.2454011E-02	-3.3181276E-03
24	3.1790823E-02	-3.3136611E-03
25	3.1128599E-02	-3.3084502E-03
26	3.0467498E-02	-3.3024170E-03
27	2.9807692E-02	-3.2954896E-03
28	2.9149366E-02	-3.2876026E-03
29	2.8492722E-02	-3.2786966E-03
30	2.7837962E-02	-3.2687186E-03
31	2.7185309E-02	-3.2576218E-03
32	2.6534991E-02	-3.2453654E-03
33	2.5887243E-02	-3.2319137E-03
34	2.5242307E-02	-3.2172346E-03
35	2.4600436E-02	-3.2012987E-03
36	2.3961876E-02	-3.1840795E-03
37	2.3326891E-02	-3.1655535E-03
38	2.2695744E-02	-3.1456999E-03
39	2.2068701E-02	-3.1245010E-03
40	2.1446037E-02	-3.1019421E-03
41	2.0828019E-02	-3.0780107E-03
42	2.0214925E-02	-3.0526981E-03
43	1.9607032E-02	-3.0259978E-03
44	1.9004618E-02	-2.9979065E-03
45	1.8407965E-02	-2.9684241E-03
46	1.7817344E-02	-2.9375525E-03
47	1.7233036E-02	-2.9052973E-03
48	1.6655317E-02	-2.8716662E-03
49	1.6084461E-02	-2.8366696E-03
50	1.5520742E-02	-2.8003209E-03
51	1.4964424E-02	-2.7626353E-03
52	1.4415787E-02	-2.7236323E-03
53	1.3875069E-02	-2.6833312E-03
54	1.3342539E-02	-2.6417557E-03
55	1.2818450E-02	-2.5989252E-03
56	1.2303052E-02	-2.5548508E-03
57	1.1796593E-02	-2.5095353E-03
58	1.1299321E-02	-2.4629736E-03
59	1.0811487E-02	-2.4151527E-03
60	1.0333345E-02	-2.3660518E-03
61	9.8651539E-03	-2.3156425E-03
62	9.4071781E-03	-2.2638886E-03
63	8.9596850E-03	-2.2108361E-03
64	8.5229213E-03	-2.1566179E-03
65	8.0971064E-03	-2.1013713E-03
66	7.6824320E-03	-2.0452371E-03
67	7.2790611E-03	-1.9883601E-03
68	6.8871276E-03	-1.9308890E-03
69	6.5067354E-03	-1.8729700E-03
70	6.1379606E-03	-1.8147359E-03
71	5.7808544E-03	-1.7563202E-03
72	5.4354466E-03	-1.6977668E-03
73	5.1017421E-03	-1.6393143E-03
74	4.7796974E-03	-1.5812130E-03

75 4.4692169E-03 -1.5237119E-03
76 4.1701573E-03 -1.4670413E-03
77 3.8823309E-03 -1.4114132E-03
78 3.6055095E-03 -1.3570222E-03
79 3.3394277E-03 -1.3040460E-03
80 3.0837861E-03 -1.2526459E-03
81 2.8382546E-03 -1.2029678E-03
82 2.6024754E-03 -1.1551423E-03
83 2.3760664E-03 -1.1092854E-03
84 2.1586233E-03 -1.0654992E-03
85 1.9497228E-03 -1.0238724E-03
86 1.7489253E-03 -9.8448057E-04
87 1.5557773E-03 -9.4738722E-04
88 1.3698138E-03 -9.1264382E-04
89 1.1905605E-03 -8.8029043E-04
90 1.0175278E-03 -8.5035461E-04
91 8.5024732E-04 -8.2285762E-04
92 6.8822175E-04 -7.9780581E-04
93 5.3096216E-04 -7.7519655E-04
94 3.7798168E-04 -7.5500912E-04
95 2.2879999E-04 -7.3719946E-04
96 8.2947602E-05 -7.2170420E-04
97 -6.0030636E-05 -7.0844318E-04
98 -2.0057218E-04 -6.9731984E-04
99 -3.3909335E-04 -6.8821820E-04
100 -4.7598478E-04 -6.8099632E-04
101 -6.1160579E-04 -6.7548308E-04
102 -7.4627859E-04 -6.7147851E-04
103 -8.8028945E-04 -6.6875737E-04
104 -1.0138578E-03 -6.6707990E-04
105 -1.1471744E-03 -6.6619774E-04
106 -1.2803728E-03 -6.6585442E-04
107 -1.4135278E-03 -6.6578489E-04

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022  15:35:02                               |
+-----+

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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

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0_L :
ELEMENT TYPE   5 NO.OF ELEMENTS. IN THIS GROUP 107
C U R R E N T   T I M E   I S   1.0000 SUBINCREMENT 00001/00001

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HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	1.4134E-02	-4.7140E-02	0.4062	0.1413	0.4062	4.021	ACTIVE	0.000	0.000	0.000	
1.000	1.000	0.1413	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.2960	-4.6471E-02	4.252	1.480	4.252	6.027	ACTIVE	0.000	-0.2000	0.000	
1.000	1.000	1.480	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.5638	-4.5802E-02	8.101	2.819	8.101	8.027	ACTIVE	0.000	-0.4000	0.000	
1.000	1.000	2.819	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.8319	-4.5134E-02	11.95	4.159	11.95	10.02	ACTIVE	0.000	-0.6000	0.000	
1.000	1.000	4.159	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	1.100	-4.4465E-02	15.81	5.500	15.81	12.01	ACTIVE	0.000	-0.8000	0.000	
1.000	1.000	5.500	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.368	-4.3796E-02	19.66	6.842	19.66	13.99	ACTIVE	0.000	-1.000	0.000	
1.000	1.000	6.842	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.637	-4.3127E-02	23.52	8.184	23.52	15.96	ACTIVE	0.000	-1.200	0.000	
1.000	1.000	8.184	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.906	-4.2459E-02	27.38	9.528	27.38	17.93	ACTIVE	0.000	-1.400	0.000	
1.000	1.000	9.528	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	2.174	-4.1790E-02	31.24	10.87	31.24	19.89	ACTIVE	0.000	-1.600	0.000	
1.000	1.000	10.87	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	2.443	-4.1122E-02	35.10	12.22	35.10	21.85	ACTIVE	0.000	-1.800	0.000	
1.000	1.000	12.22	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.712	-4.0453E-02	38.97	13.56	38.97	23.80	ACTIVE	0.000	-2.000	0.000	
1.000	1.000	13.56	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.981	-3.9785E-02	42.83	14.91	42.83	25.75	ACTIVE	0.000	-2.200	0.000	
1.000	1.000	14.91	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	3.250	-3.9117E-02	46.70	16.25	46.70	27.69	ACTIVE	0.000	-2.400	0.000	
1.000	1.000	16.25	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	3.520	-3.8449E-02	50.57	17.60	50.57	29.63	ACTIVE	0.000	-2.600	0.000	
1.000	1.000	17.60	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	3.789	-3.7781E-02	54.44	18.95	54.44	31.56	ACTIVE	0.000	-2.800	0.000	
1.000	1.000	18.95	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	4.059	-3.7114E-02	58.31	20.29	58.31	33.48	ACTIVE	0.000	-3.000	0.000	
1.000	1.000	20.29	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	4.328	-3.6447E-02	62.18	21.64	62.18	35.40	ACTIVE	0.000	-3.200	0.000	
1.000	1.000	21.64	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	4.598	-3.5780E-02	66.06	22.99	66.06	37.32	ACTIVE	0.000	-3.400	0.000	
1.000	1.000	22.99	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	4.867	-3.5114E-02	69.93	24.34	69.93	39.23	ACTIVE	0.000	-3.600	0.000	
1.000	1.000	24.34	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	5.137	-3.4448E-02	73.80	25.68	73.80	41.14	ACTIVE	0.000	-3.800	0.000	
1.000	1.000	25.68	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	13.04	-3.3783E-02	77.68	65.20	77.68	65.20	ACTIVE	0.000	-4.000	0.000	
1.000	1.000	65.20	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	13.72	-3.3118E-02	81.55	68.61	81.55	68.61	ACTIVE	0.000	-4.200	0.000	

1.000	1.000	68.61	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	14.40	-3.2454E-02	85.43	72.01	85.43	72.01	ACTIVE	0.000	-4.400	0.000
1.000	1.000	72.01	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	15.08	-3.1791E-02	89.30	75.41	89.30	75.41	ACTIVE	0.000	-4.600	0.000
1.000	1.000	75.41	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	15.76	-3.1129E-02	93.18	78.81	93.18	78.81	ACTIVE	0.000	-4.800	0.000
1.000	1.000	78.81	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	16.44	-3.0467E-02	97.05	82.21	97.05	82.21	ACTIVE	0.000	-5.000	0.000
1.000	1.000	82.21	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	17.12	-2.9808E-02	100.9	85.62	100.9	85.62	ACTIVE	0.000	-5.200	0.000
1.000	1.000	85.62	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	17.80	-2.9149E-02	104.8	89.02	104.8	89.02	ACTIVE	0.000	-5.400	0.000
1.000	1.000	89.02	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	18.48	-2.8493E-02	108.7	92.42	108.7	92.42	ACTIVE	0.000	-5.600	0.000
1.000	1.000	92.42	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	19.16	-2.7838E-02	112.6	95.82	112.6	95.82	ACTIVE	0.000	-5.800	0.000
1.000	1.000	95.82	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	19.87	-2.7185E-02	115.3	98.23	115.3	98.23	ACTIVE	0.000	-6.000	1.127
1.000	1.000	99.36	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	20.60	-2.6535E-02	117.2	99.89	117.2	99.89	ACTIVE	0.000	-6.200	3.114
1.000	1.000	103.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	21.33	-2.5887E-02	119.1	101.5	119.1	101.5	ACTIVE	0.000	-6.400	5.101
1.000	1.000	106.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	22.06	-2.5242E-02	121.0	103.2	121.0	103.2	ACTIVE	0.000	-6.600	7.089
1.000	1.000	110.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	22.78	-2.4600E-02	122.8	104.8	122.8	104.8	ACTIVE	0.000	-6.800	9.076
1.000	1.000	113.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	23.51	-2.3962E-02	124.7	106.5	124.7	106.5	ACTIVE	0.000	-7.000	11.06
1.000	1.000	117.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	24.24	-2.3327E-02	126.6	108.2	126.6	108.2	ACTIVE	0.000	-7.200	13.05
1.000	1.000	121.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	24.97	-2.2696E-02	128.5	109.8	128.5	109.8	ACTIVE	0.000	-7.400	15.04
1.000	1.000	124.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	25.70	-2.2069E-02	130.4	111.5	130.4	111.5	ACTIVE	0.000	-7.600	17.03
1.000	1.000	128.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	26.42	-2.1446E-02	132.2	113.1	132.2	113.1	ACTIVE	0.000	-7.800	19.01
1.000	1.000	132.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	27.15	-2.0828E-02	134.1	114.8	134.1	114.8	ACTIVE	0.000	-8.000	21.00
1.000	1.000	135.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	27.88	-2.0215E-02	136.0	116.4	136.0	116.4	ACTIVE	0.000	-8.200	22.99
1.000	1.000	139.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	28.60	-1.9607E-02	137.9	118.0	137.9	118.0	ACTIVE	0.000	-8.400	24.97
1.000	1.000	143.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	29.33	-1.9005E-02	139.7	119.7	139.7	119.7	ACTIVE	0.000	-8.600	26.96
1.000	1.000	146.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	30.06	-1.8408E-02	141.6	121.3	141.6	121.3	ACTIVE	0.000	-8.800	28.95
1.000	1.000	150.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	30.82	-1.7817E-02	143.7	123.1	143.7	123.1	ACTIVE	0.000	-9.000	30.94
1.000	1.000	154.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	31.58	-1.7233E-02	145.7	125.0	145.7	125.0	ACTIVE	0.000	-9.200	32.92
1.000	1.000	157.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	32.34	-1.6655E-02	147.8	126.8	147.8	126.8	ACTIVE	0.000	-9.400	34.91
1.000	1.000	161.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	33.10	-1.6084E-02	149.9	128.6	149.9	128.6	ACTIVE	0.000	-9.600	36.90
1.000	1.000	165.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	33.85	-1.5521E-02	151.9	130.4	151.9	130.4	ACTIVE	0.000	-9.800	38.89
1.000	1.000	169.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	34.61	-1.4964E-02	154.0	132.2	154.0	132.2	ACTIVE	0.000	-10.000	40.87
1.000	1.000	173.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	35.37	-1.4416E-02	156.0	134.0	156.0	134.0	ACTIVE	0.000	-10.200	42.86
1.000	1.000	176.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	36.12	-1.3875E-02	158.1	135.8	158.1	135.8	ACTIVE	0.000	-10.40	44.85
1.000	1.000	180.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	36.88	-1.3343E-02	160.1	137.6	160.1	137.6	ACTIVE	0.000	-10.60	46.83
1.000	1.000	184.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	37.63	-1.2818E-02	162.1	139.3	162.1	139.3	ACTIVE	0.000	-10.80	48.82
1.000	1.000	188.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	38.39	-1.2303E-02	164.1	141.1	164.1	141.1	ACTIVE	0.000	-11.00	50.81
1.000	1.000	191.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	39.14	-1.1797E-02	166.2	142.9	166.2	142.9	ACTIVE	0.000	-11.20	52.80
1.000	1.000	195.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	39.89	-1.1299E-02	168.2	144.7	168.2	144.7	ACTIVE	0.000	-11.40	54.78
1.000	1.000	199.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	40.64	-1.0811E-02	170.2	146.4	170.2	146.4	ACTIVE	0.000	-11.60	56.77
1.000	1.000	203.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	41.39	-1.0333E-02	172.2	148.2	172.2	148.2	ACTIVE	0.000	-11.80	58.76
1.000	1.000	207.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	42.14	-9.8652E-03	174.2	150.0	174.2	150.0	ACTIVE	0.000	-12.00	60.75
1.000	1.000	210.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.84	-9.4072E-03	176.3	136.5	176.3	136.5	ACTIVE	0.000	-12.20	62.73
1.000	1.000	199.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	40.63	-8.9597E-03	178.6	138.4	178.6	138.4	ACTIVE	0.000	-12.40	64.72
1.000	1.000	203.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	41.42	-8.5229E-03	180.9	140.4	180.9	140.4	ACTIVE	0.000	-12.60	66.71
1.000	1.000	207.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	42.21	-8.0971E-03	183.2	142.4	183.2	142.4	ACTIVE	0.000	-12.80	68.70
1.000	1.000	211.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	43.01	-7.6824E-03	185.5	144.3	185.5	144.3	ACTIVE	0.000	-13.00	70.68
1.000	1.000	215.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	43.79	-7.2791E-03	187.8	146.3	187.8	146.3	ACTIVE	0.000	-13.20	72.67
1.000	1.000	219.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	44.58	-6.8871E-03	190.1	148.3	190.1	148.3	ACTIVE	0.000	-13.40	74.66
1.000	1.000	222.9	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	45.37	-6.5067E-03	192.4	150.2	192.4	150.2	ACTIVE	0.000	-13.60	76.64
1.000	1.000	226.9	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	46.16	-6.1380E-03	194.6	152.2	194.6	152.2	ACTIVE	0.000	-13.80	78.63
1.000	1.000	230.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	46.95	-5.7809E-03	196.9	154.1	196.9	154.1	ACTIVE	0.000	-14.00	80.62
1.000	1.000	234.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	31.59	-5.4354E-03	199.3	75.33	199.3	98.40	ACTIVE	0.000	-14.20	82.61
1.000	1.000	157.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	32.37	-5.1017E-03	202.0	77.25	202.0	99.61	ACTIVE	0.000	-14.40	84.59
1.000	1.000	161.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	33.15	-4.7797E-03	204.7	79.16	204.7	100.8	ACTIVE	0.000	-14.60	86.58
1.000	1.000	165.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	33.93	-4.4692E-03	207.3	81.07	207.3	102.0	ACTIVE	0.000	-14.80	88.57
1.000	1.000	169.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	34.71	-4.1702E-03	210.0	82.98	210.0	103.3	ACTIVE	0.000	-15.00	90.56
1.000	1.000	173.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	35.49	-3.8823E-03	212.6	84.89	212.6	104.5	ACTIVE	0.000	-15.20	92.54
1.000	1.000	177.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	36.27	-3.6055E-03	215.3	86.80	215.3	105.7	ACTIVE	0.000	-15.40	94.53
1.000	1.000	181.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	37.04	-3.3394E-03	218.0	88.70	218.0	106.9	ACTIVE	0.000	-15.60	96.52
1.000	1.000	185.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	37.82	-3.0838E-03	220.6	90.61	220.6	108.1	ACTIVE	0.000	-15.80	98.50
1.000	1.000	189.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	38.60	-2.8383E-03	223.3	92.51	223.3	109.3	ACTIVE	0.000	-16.00	100.5
1.000	1.000	193.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	39.38	-2.6025E-03	225.9	94.41	225.9	110.6	ACTIVE	0.000	-16.20	102.5
1.000	1.000	196.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	40.16	-2.3761E-03	228.5	96.31	228.5	111.8	ACTIVE	0.000	-16.40	104.5
1.000	1.000	200.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000							
84 D	40.93	-2.1586E-03	231.2	98.21	231.2	113.0	ACTIVE	0.000	-16.60	106.5	
1.000	1.000	204.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
85 D	41.68	-1.9497E-03	233.6	99.97	233.6	114.2	ACTIVE	0.000	-16.80	108.4	
1.000	1.000	208.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
86 D	42.43	-1.7489E-03	236.1	101.7	236.1	115.4	ACTIVE	0.000	-17.00	110.4	
1.000	1.000	212.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
87 D	43.18	-1.5558E-03	238.6	103.5	238.6	116.6	ACTIVE	0.000	-17.20	112.4	
1.000	1.000	215.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
88 D	43.93	-1.3698E-03	241.0	105.3	241.0	117.9	ACTIVE	0.000	-17.40	114.4	
1.000	1.000	219.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
89 D	44.68	-1.1906E-03	243.5	107.0	243.5	119.1	ACTIVE	0.000	-17.60	116.4	
1.000	1.000	223.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
90 D	45.43	-1.0175E-03	245.9	108.8	245.9	120.3	ACTIVE	0.000	-17.80	118.4	
1.000	1.000	227.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
91 D	46.19	-8.5025E-04	248.4	110.6	248.4	121.5	ACTIVE	0.000	-18.00	120.4	
1.000	1.000	230.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
92 D	47.01	-6.8822E-04	250.9	112.7	250.9	122.8	UL-RL	1.1296E+05	-18.20	122.4	
1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
93 D	48.95	-5.3096E-04	253.3	120.4	253.3	124.0	UL-RL	1.1296E+05	-18.40	124.3	
1.000	1.000	244.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
94 D	50.48	-3.7798E-04	255.8	126.1	255.8	126.1	V-C	3.7653E+04	-18.60	126.3	
1.000	1.000	252.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
95 D	51.53	-2.2880E-04	258.2	129.3	258.2	129.3	V-C	3.7653E+04	-18.80	128.3	
1.000	1.000	257.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
96 D	52.56	-8.2948E-05	260.7	132.5	260.7	132.5	V-C	3.7653E+04	-19.00	130.3	
1.000	1.000	262.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
97 D	53.58	6.0031E-05	263.2	135.6	263.2	135.6	V-C	3.7653E+04	-19.20	132.3	
1.000	1.000	267.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
98 D	54.89	2.0057E-04	265.6	140.2	265.6	140.2	V-C	3.7653E+04	-19.40	134.3	
1.000	1.000	274.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
99 D	56.49	3.3909E-04	268.1	146.2	268.1	146.2	V-C	3.7653E+04	-19.60	136.3	
1.000	1.000	282.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
100 D	58.09	4.7598E-04	270.6	152.2	270.6	152.2	V-C	3.7653E+04	-19.80	138.3	
1.000	1.000	290.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
101 D	59.67	6.1161E-04	273.0	158.1	273.0	158.1	V-C	3.7653E+04	-20.00	140.2	
1.000	1.000	298.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
102 D	61.25	7.4628E-04	275.5	164.0	275.5	164.0	V-C	3.7653E+04	-20.20	142.2	
1.000	1.000	306.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
103 D	62.83	8.8029E-04	278.0	169.9	278.0	169.9	V-C	3.7653E+04	-20.40	144.2	
1.000	1.000	314.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
104 D	64.40	1.0139E-03	280.4	175.8	280.4	175.8	V-C	3.7653E+04	-20.60	146.2	
1.000	1.000	322.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
105 D	66.01	1.1472E-03	282.9	181.9	282.9	181.9	V-C	3.7653E+04	-20.80	148.2	
1.000	1.000	330.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
106 D	67.66	1.2804E-03	285.4	188.1	285.4	188.1	V-C	3.7653E+04	-21.00	150.2	
1.000	1.000	338.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
107 D	34.65	1.4135E-03	287.8	194.4	287.8	194.4	V-C	3.7653E+04	-21.20	152.2	
1.000	1.000	346.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	12.40	2.8493E-02	30.40	61.98	30.40	61.98	PASSIVE	0.000	-5.600	0.000
1.000	1.000	61.98	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	13.84	2.7838E-02	34.20	69.18	34.20	69.18	PASSIVE	0.000	-5.800	0.000
1.000	1.000	69.18	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	15.28	2.7185E-02	38.00	76.38	38.00	76.38	PASSIVE	0.000	-6.000	0.000
1.000	1.000	76.38	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	16.50	2.6535E-02	40.59	81.28	40.59	81.28	PASSIVE	0.000	-6.200	1.211
1.000	1.000	82.49	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	17.58	2.5887E-02	42.38	84.67	42.38	84.67	PASSIVE	0.000	-6.400	3.223
1.000	1.000	87.89	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	18.66	2.5242E-02	44.16	88.05	44.16	88.05	PASSIVE	0.000	-6.600	5.236
1.000	1.000	93.29	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	19.74	2.4600E-02	45.95	91.44	45.95	91.44	PASSIVE	0.000	-6.800	7.249
1.000	1.000	98.68	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	20.82	2.3962E-02	47.74	94.82	47.74	94.82	PASSIVE	0.000	-7.000	9.261
1.000	1.000	104.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	21.90	2.3327E-02	49.53	98.21	49.53	98.21	PASSIVE	0.000	-7.200	11.27
1.000	1.000	109.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	22.98	2.2696E-02	51.31	101.6	51.31	101.6	PASSIVE	0.000	-7.400	13.29
1.000	1.000	114.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	24.06	2.2069E-02	53.10	105.0	53.10	105.0	PASSIVE	0.000	-7.600	15.30
1.000	1.000	120.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	25.13	2.1446E-02	54.89	108.4	54.89	108.4	PASSIVE	0.000	-7.800	17.31
1.000	1.000	125.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	26.21	2.0828E-02	56.68	111.7	56.68	111.7	PASSIVE	0.000	-8.000	19.32
1.000	1.000	131.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	27.29	2.0215E-02	58.46	115.1	58.46	115.1	PASSIVE	0.000	-8.200	21.34
1.000	1.000	136.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	28.37	1.9607E-02	60.25	118.5	60.25	118.5	PASSIVE	0.000	-8.400	23.35
1.000	1.000	141.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	29.45	1.9005E-02	62.04	121.9	62.04	121.9	PASSIVE	0.000	-8.600	25.36
1.000	1.000	147.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	30.53	1.8408E-02	63.82	125.3	63.82	125.3	PASSIVE	0.000	-8.800	27.38
1.000	1.000	152.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	31.61	1.7817E-02	65.61	128.7	65.61	128.7	PASSIVE	0.000	-9.000	29.39
1.000	1.000	158.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	32.69	1.7233E-02	67.40	132.1	67.40	132.1	PASSIVE	0.000	-9.200	31.40
1.000	1.000	163.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	33.77	1.6655E-02	69.19	135.4	69.19	135.4	PASSIVE	0.000	-9.400	33.41
1.000	1.000	168.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	34.85	1.6084E-02	70.97	138.8	70.97	138.8	PASSIVE	0.000	-9.600	35.43
1.000	1.000	174.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	35.93	1.5521E-02	72.76	142.2	72.76	142.2	PASSIVE	0.000	-9.800	37.44
1.000	1.000	179.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	37.01	1.4964E-02	74.55	145.6	74.55	145.6	PASSIVE	0.000	-10.00	39.45
1.000	1.000	185.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	38.09	1.4416E-02	76.34	149.0	76.34	149.0	PASSIVE	0.000	-10.20	41.46
1.000	1.000	190.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	38.99	1.3875E-02	78.12	151.5	78.12	151.5	V-C 7811.		-10.40	43.48
1.000	1.000	194.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	38.73	1.3343E-02	79.91	148.1	79.91	148.1	V-C 7811.		-10.60	45.49
1.000	1.000	193.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	38.48	1.2818E-02	81.70	144.9	81.70	144.9	V-C 7811.		-10.80	47.50
1.000	1.000	192.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	38.25	1.2303E-02	83.48	141.7	83.48	141.7	V-C 7811.		-11.00	49.52
1.000	1.000	191.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	38.03	1.1797E-02	85.27	138.6	85.27	138.6	V-C 7811.		-11.20	51.53
1.000	1.000	190.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	37.82	1.1299E-02	87.06	135.6	87.06	135.6	V-C 7811.		-11.40	53.54
1.000	1.000	189.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	37.63	1.0811E-02	88.85	132.6	88.85	132.6	V-C 7811.		-11.60	55.55
1.000	1.000	188.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.46	1.0333E-02	90.63	129.7	90.63	129.7	V-C 7811.	-11.80	57.57	
1.000	1.000	187.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	37.30	9.8652E-03	92.42	126.9	92.42	126.9	V-C 7811.	-12.00	59.58	
1.000	1.000	186.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	55.83	9.4072E-03	94.33	217.6	94.33	217.6	PASSIVE 0.000	-12.20	61.59	
1.000	1.000	279.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	57.10	8.9597E-03	96.42	221.9	96.42	221.9	PASSIVE 0.000	-12.40	63.60	
1.000	1.000	285.5	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	58.36	8.5229E-03	98.50	226.2	98.50	226.2	PASSIVE 0.000	-12.60	65.62	
1.000	1.000	291.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	59.63	8.0971E-03	100.6	230.5	100.6	230.5	PASSIVE 0.000	-12.80	67.63	
1.000	1.000	298.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	60.89	7.6824E-03	102.7	234.8	102.7	234.8	PASSIVE 0.000	-13.00	69.64	
1.000	1.000	304.4	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	62.15	7.2791E-03	104.8	239.1	104.8	239.1	PASSIVE 0.000	-13.20	71.65	
1.000	1.000	310.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	61.85	6.8871E-03	106.9	235.6	106.9	235.6	V-C 2.5966E+04	-13.40	73.67	
1.000	1.000	309.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	60.48	6.5067E-03	108.9	226.7	108.9	226.7	V-C 2.5966E+04	-13.60	75.68	
1.000	1.000	302.4	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	59.17	6.1380E-03	111.0	218.1	111.0	218.1	V-C 2.5966E+04	-13.80	77.69	
1.000	1.000	295.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	57.91	5.7809E-03	113.1	209.9	113.1	209.9	V-C 2.5966E+04	-14.00	79.71	
1.000	1.000	289.6	0.000	0.000	8.000	8.000	Salt_175_16_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	65.51	5.4354E-03	115.4	245.8	115.4	245.8	V-C 3.4033E+04	-14.20	81.72	
1.000	1.000	327.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	63.88	5.1017E-03	117.8	235.7	117.8	235.7	V-C 3.4033E+04	-14.40	83.73	
1.000	1.000	319.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	62.33	4.7797E-03	120.3	225.9	120.3	225.9	V-C 3.4033E+04	-14.60	85.74	
1.000	1.000	311.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	60.86	4.4692E-03	122.8	216.5	122.8	216.5	V-C 3.4033E+04	-14.80	87.76	
1.000	1.000	304.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	59.47	4.1702E-03	125.3	207.6	125.3	207.6	V-C 3.4033E+04	-15.00	89.77	
1.000	1.000	297.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	58.15	3.8823E-03	127.8	199.0	127.8	199.0	V-C 3.4033E+04	-15.20	91.78	
1.000	1.000	290.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	56.91	3.6055E-03	130.3	190.8	130.3	190.8	V-C 3.4033E+04	-15.40	93.79	
1.000	1.000	284.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	55.74	3.3394E-03	132.8	182.9	132.8	182.9	V-C 3.4033E+04	-15.60	95.81	
1.000	1.000	278.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	54.65	3.0838E-03	135.3	175.4	135.3	175.4	V-C 3.4033E+04	-15.80	97.82	
1.000	1.000	273.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	53.62	2.8383E-03	137.7	168.3	137.7	168.3	V-C 3.4033E+04	-16.00	99.83	
1.000	1.000	268.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	52.66	2.6025E-03	140.2	161.4	140.2	161.4	V-C 3.4033E+04	-16.20	101.8	
1.000	1.000	263.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	51.76	2.3761E-03	142.7	154.9	142.7	154.9	V-C 3.4033E+04	-16.40	103.9	
1.000	1.000	258.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	50.92	2.1586E-03	145.2	148.7	145.2	148.7	V-C 3.4033E+04	-16.60	105.9	
1.000	1.000	254.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	50.14	1.9497E-03	147.7	142.8	147.7	142.8	V-C 3.4033E+04	-16.80	107.9	
1.000	1.000	250.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	49.42	1.7489E-03	150.2	137.2	150.2	137.2	V-C 3.4033E+04	-17.00	109.9	
1.000	1.000	247.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	48.75	1.5558E-03	152.7	131.8	152.7	131.8	V-C 3.4033E+04	-17.20	111.9	
1.000	1.000	243.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	48.13	1.3698E-03	155.2	126.7	155.2	126.7	V-C 3.4033E+04	-17.40	113.9	
1.000	1.000	240.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	47.55	1.1906E-03	157.6	121.8	157.6	121.8	V-C 3.4033E+04	-17.60	115.9	
1.000	1.000	237.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0		0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	47.02	1.0175E-03	160.1	117.2	160.1	117.2	V-C 3.4033E+04	-17.80	117.9	

1.000	1.000	235.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	46.53	8.5025E-04	162.6	112.7	162.6	112.7	V-C 3.4033E+04	-18.00	120.0
1.000	1.000	232.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	46.02	6.8822E-04	165.1	108.1	165.1	108.5	UL-RL 1.0210E+05	-18.20	122.0
1.000	1.000	230.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	44.88	5.3096E-04	167.6	100.4	167.6	106.1	UL-RL 1.0210E+05	-18.40	124.0
1.000	1.000	224.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	43.80	3.7798E-04	170.1	93.00	170.1	103.8	UL-RL 1.0210E+05	-18.60	126.0
1.000	1.000	219.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.77	2.2880E-04	172.6	85.83	172.6	101.6	UL-RL 1.0210E+05	-18.80	128.0
1.000	1.000	213.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	41.78	8.2948E-05	175.1	78.87	175.1	99.48	UL-RL 1.0210E+05	-19.00	130.0
1.000	1.000	208.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	40.83	-6.0031E-05	177.5	72.11	177.5	97.38	UL-RL 1.0210E+05	-19.20	132.0
1.000	1.000	204.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	39.38	-2.0057E-04	180.0	62.84	180.0	96.66	UL-RL 1.0210E+05	-19.40	134.0
1.000	1.000	196.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	37.41	-3.3909E-04	182.5	50.98	182.5	97.33	UL-RL 1.0210E+05	-19.60	136.1
1.000	1.000	187.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	35.47	-4.7598E-04	185.0	39.27	185.0	98.02	UL-RL 1.0210E+05	-19.80	138.1
1.000	1.000	177.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	33.55	-6.1161E-04	187.5	27.67	187.5	98.72	UL-RL 1.0210E+05	-20.00	140.1
1.000	1.000	167.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	32.50	-7.4628E-04	190.0	20.39	190.0	99.42	ACTIVE 0.000	-20.20	142.1
1.000	1.000	162.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	33.08	-8.8029E-04	192.5	21.29	192.5	100.1	ACTIVE 0.000	-20.40	144.1
1.000	1.000	165.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	33.66	-1.0139E-03	195.0	22.18	195.0	100.8	ACTIVE 0.000	-20.60	146.1
1.000	1.000	168.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	34.24	-1.1472E-03	197.4	23.08	197.4	101.6	ACTIVE 0.000	-20.80	148.1
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	34.82	-1.2804E-03	199.9	23.97	199.9	102.3	ACTIVE 0.000	-21.00	150.1
1.000	1.000	174.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	17.70	-1.4135E-03	202.4	24.87	202.4	103.1	ACTIVE 0.000	-21.20	152.2
1.000	1.000	177.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:02          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.41342E-02	-1.41342E-02	-3.66072E-11	2.82684E-03
2	0.31009	-0.31009	-2.82684E-03	6.48457E-02
3	0.87392	-0.87392	-6.48457E-02	0.23963
4	1.7058	-1.7058	-0.23963	0.58078
5	2.8058	-2.8058	-0.58078	1.1419
6	4.1742	-4.1742	-1.1419	1.9768
7	5.8111	-5.8111	-1.9768	3.1390
8	7.7166	-7.7166	-3.1390	4.6823
9	9.8908	-9.8908	-4.6823	6.6605
10	12.334	-12.334	-6.6605	9.1273
11	15.046	-15.046	-9.1273	12.136
12	18.027	-18.027	-12.136	15.742
13	21.278	-21.278	-15.742	19.998
14	24.798	-24.798	-19.998	24.957
15	28.587	-28.587	-24.957	30.674

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                                                                                               |
|                                                                                               Exe Time :28 January 2022   15:35:02                                                                                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

WallElement_New_75260 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
C U R R E N T T I M E I S 1.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	32.645	-32.645	-30.674	37.203
2	36.973	-36.973	-37.203	44.598
3	41.571	-41.571	-44.598	52.912
4	46.438	-46.438	-52.912	62.200
5	51.575	-51.575	-62.200	72.515
6	63.735	-63.735	-72.515	85.262
7	75.136	-75.136	-85.262	100.29
8	85.778	-85.778	-100.29	117.44
9	95.660	-95.660	-117.44	136.58
10	104.78	-104.78	-136.58	157.53
11	113.15	-113.15	-157.53	180.16
12	120.76	-120.76	-180.16	204.31
13	127.60	-127.60	-204.31	229.83
14	133.69	-133.69	-229.83	256.57
15	139.02	-139.02	-256.57	284.38
16	143.61	-143.61	-284.38	313.10
17	147.72	-147.72	-313.10	342.64
18	151.47	-151.47	-342.64	372.94
19	154.87	-154.87	-372.94	403.91
20	157.92	-157.92	-403.91	435.49
21	160.61	-160.61	-435.49	467.61
22	162.96	-162.96	-467.61	500.21
23	164.95	-164.95	-500.21	533.20
24	166.59	-166.59	-533.20	566.51
25	167.88	-167.88	-566.51	600.09
26	168.81	-168.81	-600.09	633.85
27	169.40	-169.40	-633.85	667.73
28	169.63	-169.63	-667.73	701.66
29	169.51	-169.51	-701.66	735.56
30	169.03	-169.03	-735.56	769.37
31	168.24	-168.24	-769.37	803.01
32	167.12	-167.12	-803.01	836.44
33	165.69	-165.69	-836.44	869.57
34	163.93	-163.93	-869.57	902.36
35	161.86	-161.86	-902.36	934.73
36	159.46	-159.46	-934.73	966.62
37	156.74	-156.74	-966.62	997.97
38	153.88	-153.88	-997.97	1028.7
39	152.03	-152.03	-1028.7	1059.2
40	151.18	-151.18	-1059.2	1089.4
41	151.32	-151.32	-1089.4	1119.7
42	152.42	-152.42	-1119.7	1150.1
43	154.49	-154.49	-1150.1	1181.0
44	157.50	-157.50	-1181.0	1212.5
45	161.43	-161.43	-1212.5	1244.8
46	166.27	-166.27	-1244.8	1278.1
47	150.28	-150.28	-1278.1	1308.1
48	133.81	-133.81	-1308.1	1334.9
49	116.88	-116.88	-1334.9	1358.3
50	99.465	-99.465	-1358.3	1378.2
51	81.580	-81.580	-1378.2	1394.5
52	63.222	-63.222	-1394.5	1407.1
53	45.954	-45.954	-1407.1	1416.3
54	30.847	-30.847	-1416.3	1422.5
55	17.841	-17.841	-1422.5	1426.0
56	6.8747	-6.8747	-1426.0	1427.4
57	-27.046	27.046	-1427.4	1422.0
58	-58.558	58.558	-1422.0	1410.3
59	-87.740	87.740	-1410.3	1392.8
60	-114.67	114.67	-1392.8	1369.8
61	-139.43	139.43	-1369.8	1341.9
62	-162.10	162.10	-1341.9	1309.5
63	-182.74	182.74	-1309.5	1273.0
64	-201.44	201.44	-1273.0	1232.7
65	-218.26	218.26	-1232.7	1189.0
66	-233.28	233.28	-1189.0	1142.4
67	-246.56	246.56	-1142.4	1093.1
68	-258.16	258.16	-1093.1	1041.4
69	-268.15	268.15	-1041.4	987.80
70	-276.62	276.62	-987.80	932.47

71	-283.60	283.60	-932.47	875.75
72	-289.17	289.17	-875.75	817.92
73	-293.37	293.37	-817.92	759.24
74	-296.24	296.24	-759.24	699.99
75	-297.82	297.82	-699.99	640.43
76	-298.16	298.16	-640.43	580.80
77	-297.18	297.18	-580.80	521.36
78	-293.12	293.12	-521.36	462.74
79	-286.44	286.44	-462.74	405.45
80	-277.68	277.68	-405.45	349.91
81	-266.90	266.90	-349.91	296.53
82	-254.14	254.14	-296.53	245.71
83	-238.63	238.63	-245.71	197.98
84	-219.54	219.54	-197.98	154.07
85	-196.92	196.92	-154.07	114.69
86	-170.80	170.80	-114.69	80.527
87	-142.05	142.05	-80.527	52.116
88	-112.30	112.30	-52.116	29.657
89	-81.553	81.553	-29.657	13.346
90	-49.784	49.784	-13.346	3.3897
91	-16.949	16.949	-3.3897	-8.86757E-12

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5736E+07  RIMNOR=0.1351E+09
            RENORM= 12.10     REMNOR=0.5139E-16  RATIO =0.1453E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 298.2     RMMAX = 1427.
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-01
            RDT   =0.5736E+07  RDR   =0.1351E+09
            RATIO=0.1453E-02  RATOR= 0.000
            MAX UN=0.1795E-08  IEQ=   20 NODE    10 DOF   2  X-ROT. F
            MIN UN=-.5344     IEQ=  167 NODE   84 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5736E+07  RIMNOR=0.1351E+09
            RENORM=0.5576E-13  REMNOR=0.1174E-15  RATIO =0.9859E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 298.2     RMMAX = 1427.
            RTSMAL=0.1000E-02  RMSMAL=0.1000E-01
            RDT   =0.5736E+07  RDR   =0.1351E+09
            RATIO=0.9859E-10  RATOR= 0.000
            MAX UN=0.9551E-07  IEQ=   43 NODE    22 DOF   1  Y-DISPL.F
            MIN UN=-.9544E-07  IEQ=   45 NODE    23 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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75 4.4562377E-03 -1.5231042E-03
76 4.1572936E-03 -1.4664938E-03
77 3.8695706E-03 -1.4109275E-03
78 3.5928401E-03 -1.3565992E-03
79 3.3268365E-03 -1.3036863E-03
80 3.0712605E-03 -1.2523497E-03
81 2.8257819E-03 -1.2027349E-03
82 2.5900430E-03 -1.1549723E-03
83 2.3636617E-03 -1.1091778E-03
84 2.1462339E-03 -1.0654535E-03
85 1.9373365E-03 -1.0238878E-03
86 1.7365298E-03 -9.8455666E-04
87 1.5433606E-03 -9.4752328E-04
88 1.3573639E-03 -9.1283917E-04
89 1.1780656E-03 -8.8054430E-04
90 1.0049765E-03 -8.5066611E-04
91 8.3762799E-04 -8.2322569E-04
92 6.7552325E-04 -7.9822918E-04
93 5.1817358E-04 -7.7567368E-04
94 3.6509245E-04 -7.5553819E-04
95 2.1579993E-04 -7.3777826E-04
96 6.9827022E-05 -7.2233011E-04
97 -7.3280855E-05 -7.0911309E-04
98 -2.1396048E-04 -6.9803008E-04
99 -3.5262738E-04 -6.8896450E-04
100 -4.8967127E-04 -6.8177368E-04
101 -6.2545038E-04 -6.7628577E-04
102 -7.6028571E-04 -6.7229996E-04
103 -8.9446221E-04 -6.6959125E-04
104 -1.0281982E-03 -6.6792124E-04
105 -1.1616835E-03 -6.6704290E-04
106 -1.2950511E-03 -6.6670103E-04
107 -1.4283754E-03 -6.6663179E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:02          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 107
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * TOR QSL	FORCE UFACTOR ZD	DISPL-Y Peq ZPL	VERTICAL-P Su_a Kz	HORIZON.-P Su_p	MAX-V-P Cohe_a	MAX-H-P Cohe_p	STATE LAYER	STIFFNESS	Z-LEVEL	PORE ZFO	E FAC- QS
1 D	0.000	-4.7125E-02	0.000	0.000	0.4062	4.021	PASSIVE	0.000	0.000	0.000	
1.000	1.000	0.000	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
2 D	0.3098	-4.6457E-02	3.800	1.549	4.252	6.027	UL-RL	1.2798E+04	-0.2000	0.000	
1.000	1.000	1.549	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
3 D	0.5757	-4.5788E-02	7.600	2.878	8.101	8.027	UL-RL	1.2798E+04	-0.4000	0.000	
1.000	1.000	2.878	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
4 D	0.8414	-4.5119E-02	11.40	4.207	11.95	10.02	UL-RL	1.2798E+04	-0.6000	0.000	
1.000	1.000	4.207	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
5 D	1.107	-4.4450E-02	15.20	5.535	15.81	12.01	UL-RL	1.2798E+04	-0.8000	0.000	
1.000	1.000	5.535	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
6 D	1.373	-4.3781E-02	19.00	6.864	19.66	13.99	UL-RL	1.2798E+04	-1.000	0.000	
1.000	1.000	6.864	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
7 D	1.639	-4.3113E-02	22.80	8.193	23.52	15.96	UL-RL	1.2798E+04	-1.200	0.000	
1.000	1.000	8.193	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
8 D	1.904	-4.2444E-02	26.60	9.522	27.38	17.93	UL-RL	1.2798E+04	-1.400	0.000	
1.000	1.000	9.522	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
9 D	2.170	-4.1775E-02	30.40	10.85	31.24	19.89	UL-RL	1.2798E+04	-1.600	0.000	
1.000	1.000	10.85	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
10 D	2.436	-4.1107E-02	34.20	12.18	35.10	21.85	UL-RL	1.2798E+04	-1.800	0.000	
1.000	1.000	12.18	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
11 D	2.702	-4.0438E-02	38.00	13.51	38.97	23.80	UL-RL	1.2798E+04	-2.000	0.000	
1.000	1.000	13.51	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
12 D	2.968	-3.9770E-02	41.80	14.84	42.83	25.75	UL-RL	1.2798E+04	-2.200	0.000	
1.000	1.000	14.84	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
13 D	3.234	-3.9101E-02	45.60	16.17	46.70	27.69	UL-RL	1.2798E+04	-2.400	0.000	
1.000	1.000	16.17	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
14 D	3.500	-3.8433E-02	49.40	17.50	50.57	29.63	UL-RL	1.2798E+04	-2.600	0.000	
1.000	1.000	17.50	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
15 D	3.766	-3.7766E-02	53.20	18.83	54.44	31.56	UL-RL	1.2798E+04	-2.800	0.000	
1.000	1.000	18.83	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
16 D	4.032	-3.7098E-02	57.00	20.16	58.31	33.48	UL-RL	1.2798E+04	-3.000	0.000	
1.000	1.000	20.16	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
17 D	4.298	-3.6431E-02	60.80	21.49	62.18	35.40	UL-RL	1.2798E+04	-3.200	0.000	
1.000	1.000	21.49	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
18 D	4.564	-3.5765E-02	64.60	22.82	66.06	37.32	UL-RL	1.2798E+04	-3.400	0.000	
1.000	1.000	22.82	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
19 D	4.830	-3.5098E-02	68.40	24.15	69.93	39.23	UL-RL	1.2798E+04	-3.600	0.000	
1.000	1.000	24.15	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
20 D	5.096	-3.4433E-02	72.20	25.48	73.80	41.14	UL-RL	1.2798E+04	-3.800	0.000	
1.000	1.000	25.48	0.000	0.000	0.000	0.000	Rilevato_76031_14_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
21 D	13.03	-3.3767E-02	76.00	65.16	77.68	65.20	UL-RL	2.4306E+04	-4.000	0.000	
1.000	1.000	65.16	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.000	
0.0000	0.0000	0.0000	0.0000	0.0000							
22 D	13.71	-3.3102E-02	79.80	68.55	81.55	68.61	UL-RL	2.4306E+04	-4.200	0.000	

1.000	1.000	68.55	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
23 D	14.39	-3.2438E-02	83.60	71.93	85.43	72.01	UL-RL 2.4306E+04	-4.400	0.000
1.000	1.000	71.93	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
24 D	15.06	-3.1775E-02	87.40	75.32	89.30	75.41	UL-RL 2.4306E+04	-4.600	0.000
1.000	1.000	75.32	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
25 D	15.74	-3.1113E-02	91.20	78.70	93.18	78.81	UL-RL 2.4306E+04	-4.800	0.000
1.000	1.000	78.70	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
26 D	16.42	-3.0452E-02	95.00	82.08	97.05	82.21	UL-RL 2.4306E+04	-5.000	0.000
1.000	1.000	82.08	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
27 D	17.09	-2.9792E-02	98.80	85.47	100.9	85.62	UL-RL 2.4306E+04	-5.200	0.000
1.000	1.000	85.47	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
28 D	17.77	-2.9133E-02	102.6	88.85	104.8	89.02	UL-RL 2.4306E+04	-5.400	0.000
1.000	1.000	88.85	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
29 D	18.45	-2.8477E-02	106.4	92.24	108.7	92.42	UL-RL 2.4306E+04	-5.600	0.000
1.000	1.000	92.24	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	19.12	-2.7822E-02	110.2	95.62	112.6	95.82	UL-RL 2.4306E+04	-5.800	0.000
1.000	1.000	95.62	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	19.83	-2.7169E-02	112.9	98.02	115.3	98.23	UL-RL 2.4306E+04	-6.000	1.127
1.000	1.000	98.02	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	20.55	-2.6519E-02	114.7	99.66	117.2	99.89	UL-RL 2.4306E+04	-6.200	3.114
1.000	1.000	102.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	21.28	-2.5871E-02	116.5	101.3	119.1	101.5	UL-RL 2.4306E+04	-6.400	5.101
1.000	1.000	106.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	22.00	-2.5226E-02	118.3	102.9	121.0	103.2	UL-RL 2.4306E+04	-6.600	7.089
1.000	1.000	110.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	22.73	-2.4584E-02	120.1	104.6	122.8	104.8	UL-RL 2.4306E+04	-6.800	9.076
1.000	1.000	113.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	23.45	-2.3945E-02	121.9	106.2	124.7	106.5	UL-RL 2.4306E+04	-7.000	11.06
1.000	1.000	117.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	24.18	-2.3310E-02	123.7	107.8	126.6	108.2	UL-RL 2.4306E+04	-7.200	13.05
1.000	1.000	120.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	24.90	-2.2679E-02	125.6	109.5	128.5	109.8	UL-RL 2.4306E+04	-7.400	15.04
1.000	1.000	124.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	25.63	-2.2052E-02	127.4	111.1	130.4	111.5	UL-RL 2.4306E+04	-7.600	17.03
1.000	1.000	128.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	26.35	-2.1429E-02	129.2	112.7	132.2	113.1	UL-RL 2.4306E+04	-7.800	19.01
1.000	1.000	131.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	27.08	-2.0811E-02	131.0	114.4	134.1	114.8	UL-RL 2.4306E+04	-8.000	21.00
1.000	1.000	135.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	27.80	-2.0198E-02	132.8	116.0	136.0	116.4	UL-RL 2.4306E+04	-8.200	22.99
1.000	1.000	139.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	28.52	-1.9590E-02	134.6	117.6	137.9	118.0	UL-RL 2.4306E+04	-8.400	24.97
1.000	1.000	142.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	29.25	-1.8988E-02	136.4	119.3	139.7	119.7	UL-RL 2.4306E+04	-8.600	26.96
1.000	1.000	146.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	29.97	-1.8391E-02	138.3	120.9	141.6	121.3	UL-RL 2.4306E+04	-8.800	28.95
1.000	1.000	149.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	30.72	-1.7800E-02	140.1	122.7	143.7	123.1	UL-RL 2.4306E+04	-9.000	30.94
1.000	1.000	153.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	31.47	-1.7216E-02	141.9	124.4	145.7	125.0	UL-RL 2.4306E+04	-9.200	32.92
1.000	1.000	157.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	32.21	-1.6638E-02	143.7	126.2	147.8	126.8	UL-RL 2.4306E+04	-9.400	34.91
1.000	1.000	161.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	32.96	-1.6068E-02	145.5	127.9	149.9	128.6	UL-RL 2.4306E+04	-9.600	36.90
1.000	1.000	164.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	33.70	-1.5504E-02	147.3	129.6	151.9	130.4	UL-RL 2.4306E+04	-9.800	38.89
1.000	1.000	168.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	34.45	-1.4948E-02	149.1	131.4	154.0	132.2	UL-RL 2.4306E+04	-10.00	40.87
1.000	1.000	172.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	35.19	-1.4399E-02	150.9	133.1	156.0	134.0	UL-RL 2.4306E+04	-10.20	42.86
1.000	1.000	176.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

53 D	35.94	-1.3858E-02	152.8	134.8	158.1	135.8	UL-RL	2.4306E+04	-10.40	44.85
1.000	1.000	179.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	36.68	-1.3326E-02	154.6	136.6	160.1	137.6	UL-RL	2.4306E+04	-10.60	46.83
1.000	1.000	183.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	37.42	-1.2802E-02	156.4	138.3	162.1	139.3	UL-RL	2.4306E+04	-10.80	48.82
1.000	1.000	187.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	38.16	-1.2287E-02	158.2	140.0	164.1	141.1	UL-RL	2.4306E+04	-11.00	50.81
1.000	1.000	190.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	38.91	-1.1780E-02	160.0	141.7	166.2	142.9	UL-RL	2.4306E+04	-11.20	52.80
1.000	1.000	194.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	39.65	-1.1283E-02	161.8	143.4	168.2	144.7	UL-RL	2.4306E+04	-11.40	54.78
1.000	1.000	198.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	40.39	-1.0796E-02	163.6	145.2	170.2	146.4	UL-RL	2.4306E+04	-11.60	56.77
1.000	1.000	201.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	41.13	-1.0318E-02	165.4	146.9	172.2	148.2	UL-RL	2.4306E+04	-11.80	58.76
1.000	1.000	205.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	41.86	-9.8497E-03	167.3	148.6	174.2	150.0	UL-RL	2.4306E+04	-12.00	60.75
1.000	1.000	209.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	39.74	-9.3919E-03	169.2	136.0	176.3	136.5	UL-RL	8.6183E+04	-12.20	62.73
1.000	1.000	198.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	40.52	-8.9446E-03	171.3	137.9	178.6	138.4	UL-RL	8.6183E+04	-12.40	64.72
1.000	1.000	202.6	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	41.30	-8.5081E-03	173.4	139.8	180.9	140.4	UL-RL	8.6183E+04	-12.60	66.71
1.000	1.000	206.5	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	42.08	-8.0825E-03	175.5	141.7	183.2	142.4	UL-RL	8.6183E+04	-12.80	68.70
1.000	1.000	210.4	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	42.86	-7.6680E-03	177.6	143.6	185.5	144.3	UL-RL	8.6183E+04	-13.00	70.68
1.000	1.000	214.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	43.63	-7.2648E-03	179.7	145.5	187.8	146.3	UL-RL	8.6183E+04	-13.20	72.67
1.000	1.000	218.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	44.41	-6.8730E-03	181.9	147.4	190.1	148.3	UL-RL	8.6183E+04	-13.40	74.66
1.000	1.000	222.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	45.19	-6.4928E-03	184.0	149.3	192.4	150.2	UL-RL	8.6183E+04	-13.60	76.64
1.000	1.000	225.9	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	45.97	-6.1242E-03	186.1	151.2	194.6	152.2	UL-RL	8.6183E+04	-13.80	78.63
1.000	1.000	229.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	46.74	-5.7673E-03	188.2	153.1	196.9	154.1	UL-RL	8.6183E+04	-14.00	80.62
1.000	1.000	233.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	31.44	-5.4221E-03	190.5	74.61	199.3	98.40	UL-RL	1.1296E+05	-14.20	82.61
1.000	1.000	157.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	32.21	-5.0885E-03	193.0	76.47	202.0	99.61	UL-RL	1.1296E+05	-14.40	84.59
1.000	1.000	161.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	32.98	-4.7666E-03	195.5	78.32	204.7	100.8	UL-RL	1.1296E+05	-14.60	86.58
1.000	1.000	164.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	33.75	-4.4562E-03	198.0	80.18	207.3	102.0	UL-RL	1.1296E+05	-14.80	88.57
1.000	1.000	168.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	34.52	-4.1573E-03	200.5	82.04	210.0	103.3	UL-RL	1.1296E+05	-15.00	90.56
1.000	1.000	172.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	35.29	-3.8696E-03	203.0	83.90	212.6	104.5	UL-RL	1.1296E+05	-15.20	92.54
1.000	1.000	176.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	36.06	-3.5928E-03	205.5	85.76	215.3	105.7	UL-RL	1.1296E+05	-15.40	94.53
1.000	1.000	180.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	36.83	-3.3268E-03	208.1	87.62	218.0	106.9	UL-RL	1.1296E+05	-15.60	96.52
1.000	1.000	184.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	37.60	-3.0713E-03	210.6	89.49	220.6	108.1	UL-RL	1.1296E+05	-15.80	98.50
1.000	1.000	188.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	38.37	-2.8258E-03	213.1	91.35	223.3	109.3	UL-RL	1.1296E+05	-16.00	100.5
1.000	1.000	191.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	39.14	-2.5900E-03	215.6	93.21	225.9	110.6	UL-RL	1.1296E+05	-16.20	102.5
1.000	1.000	195.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	39.91	-2.3637E-03	218.1	95.07	228.5	111.8	UL-RL	1.1296E+05	-16.40	104.5
1.000	1.000	199.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	40.68	-2.1462E-03	220.6	96.93	231.2	113.0	UL-RL	1.1296E+05	-16.60	106.5
1.000	1.000	203.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	41.43	-1.9373E-03	223.1	98.71	233.6	114.2	UL-RL	1.1296E+05	-16.80	108.4
1.000	1.000	207.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	42.18	-1.7365E-03	225.7	100.5	236.1	115.4	UL-RL	1.1296E+05	-17.00	110.4
1.000	1.000	210.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	42.94	-1.5434E-03	228.2	102.3	238.6	116.6	UL-RL	1.1296E+05	-17.20	112.4
1.000	1.000	214.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	43.69	-1.3574E-03	230.7	104.1	241.0	117.9	UL-RL	1.1296E+05	-17.40	114.4
1.000	1.000	218.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	44.45	-1.1781E-03	233.2	105.8	243.5	119.1	UL-RL	1.1296E+05	-17.60	116.4
1.000	1.000	222.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	45.20	-1.0050E-03	235.7	107.6	245.9	120.3	UL-RL	1.1296E+05	-17.80	118.4
1.000	1.000	226.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
91 D	45.96	-8.3763E-04	238.2	109.4	248.4	121.5	UL-RL	1.1296E+05	-18.00	120.4
1.000	1.000	229.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
92 D	46.78	-6.7552E-04	240.7	111.6	250.9	122.8	UL-RL	1.1296E+05	-18.20	122.4
1.000	1.000	233.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
93 D	48.73	-5.1817E-04	243.2	119.3	253.3	124.0	UL-RL	1.1296E+05	-18.40	124.3
1.000	1.000	243.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
94 D	50.27	-3.6509E-04	245.8	125.0	255.8	126.1	UL-RL	1.1296E+05	-18.60	126.3
1.000	1.000	251.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
95 D	51.32	-2.1580E-04	248.3	128.3	258.2	129.3	UL-RL	1.1296E+05	-18.80	128.3
1.000	1.000	256.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
96 D	52.35	-6.9827E-05	250.8	131.5	260.7	132.5	UL-RL	1.1296E+05	-19.00	130.3
1.000	1.000	261.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
97 D	53.38	7.3281E-05	253.3	134.6	263.2	135.6	UL-RL	1.1296E+05	-19.20	132.3
1.000	1.000	266.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
98 D	54.70	2.1396E-04	255.8	139.2	265.6	140.2	UL-RL	1.1296E+05	-19.40	134.3
1.000	1.000	273.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
99 D	56.31	3.5263E-04	258.3	145.3	268.1	146.2	UL-RL	1.1296E+05	-19.60	136.3
1.000	1.000	281.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
100 D	57.91	4.8967E-04	260.8	151.3	270.6	152.2	UL-RL	1.1296E+05	-19.80	138.3
1.000	1.000	289.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
101 D	59.50	6.2545E-04	263.3	157.3	273.0	158.1	UL-RL	1.1296E+05	-20.00	140.2
1.000	1.000	297.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
102 D	61.08	7.6029E-04	265.9	163.2	275.5	164.0	UL-RL	1.1296E+05	-20.20	142.2
1.000	1.000	305.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
103 D	62.67	8.9446E-04	268.4	169.1	278.0	169.9	UL-RL	1.1296E+05	-20.40	144.2
1.000	1.000	313.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
104 D	64.25	1.0282E-03	270.9	175.0	280.4	175.8	UL-RL	1.1296E+05	-20.60	146.2
1.000	1.000	321.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
105 D	65.86	1.1617E-03	273.4	181.1	282.9	181.9	UL-RL	1.1296E+05	-20.80	148.2
1.000	1.000	329.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
106 D	67.51	1.2951E-03	275.9	187.4	285.4	188.1	UL-RL	1.1296E+05	-21.00	150.2
1.000	1.000	337.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
107 D	34.58	1.4284E-03	278.4	193.7	287.8	194.4	UL-RL	1.1296E+05	-21.20	152.2
1.000	1.000	345.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						

29 D	12.32	2.8477E-02	30.40	61.60	30.40	61.98	UL-RL 2.3432E+04	-5.600	0.000
1.000	1.000	61.60	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
30 D	13.76	2.7822E-02	34.20	68.80	34.20	69.18	UL-RL 2.3432E+04	-5.800	0.000
1.000	1.000	68.80	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
31 D	15.20	2.7169E-02	38.00	76.00	38.00	76.38	UL-RL 2.3432E+04	-6.000	0.000
1.000	1.000	76.00	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
32 D	16.42	2.6519E-02	40.59	80.90	40.59	81.28	UL-RL 2.3432E+04	-6.200	1.211
1.000	1.000	82.11	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
33 D	17.50	2.5871E-02	42.38	84.28	42.38	84.67	UL-RL 2.3432E+04	-6.400	3.223
1.000	1.000	87.50	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
34 D	18.58	2.5226E-02	44.16	87.67	44.16	88.05	UL-RL 2.3432E+04	-6.600	5.236
1.000	1.000	92.90	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
35 D	19.66	2.4584E-02	45.95	91.05	45.95	91.44	UL-RL 2.3432E+04	-6.800	7.249
1.000	1.000	98.30	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
36 D	20.74	2.3945E-02	47.74	94.43	47.74	94.82	UL-RL 2.3432E+04	-7.000	9.261
1.000	1.000	103.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
37 D	21.82	2.3310E-02	49.53	97.82	49.53	98.21	UL-RL 2.3432E+04	-7.200	11.27
1.000	1.000	109.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
38 D	22.90	2.2679E-02	51.31	101.2	51.31	101.6	UL-RL 2.3432E+04	-7.400	13.29
1.000	1.000	114.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
39 D	23.98	2.2052E-02	53.10	104.6	53.10	105.0	UL-RL 2.3432E+04	-7.600	15.30
1.000	1.000	119.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
40 D	25.06	2.1429E-02	54.89	108.0	54.89	108.4	UL-RL 2.3432E+04	-7.800	17.31
1.000	1.000	125.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
41 D	26.14	2.0811E-02	56.68	111.4	56.68	111.7	UL-RL 2.3432E+04	-8.000	19.32
1.000	1.000	130.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
42 D	27.21	2.0198E-02	58.46	114.7	58.46	115.1	UL-RL 2.3432E+04	-8.200	21.34
1.000	1.000	136.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
43 D	28.29	1.9590E-02	60.25	118.1	60.25	118.5	UL-RL 2.3432E+04	-8.400	23.35
1.000	1.000	141.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
44 D	29.37	1.8988E-02	62.04	121.5	62.04	121.9	UL-RL 2.3432E+04	-8.600	25.36
1.000	1.000	146.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
45 D	30.45	1.8391E-02	63.82	124.9	63.82	125.3	UL-RL 2.3432E+04	-8.800	27.38
1.000	1.000	152.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
46 D	31.53	1.7800E-02	65.61	128.3	65.61	128.7	UL-RL 2.3432E+04	-9.000	29.39
1.000	1.000	157.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
47 D	32.61	1.7216E-02	67.40	131.7	67.40	132.1	UL-RL 2.3432E+04	-9.200	31.40
1.000	1.000	163.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
48 D	33.69	1.6638E-02	69.19	135.0	69.19	135.4	UL-RL 2.3432E+04	-9.400	33.41
1.000	1.000	168.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
49 D	34.77	1.6068E-02	70.97	138.4	70.97	138.8	UL-RL 2.3432E+04	-9.600	35.43
1.000	1.000	173.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
50 D	35.85	1.5504E-02	72.76	141.8	72.76	142.2	UL-RL 2.3432E+04	-9.800	37.44
1.000	1.000	179.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
51 D	36.93	1.4948E-02	74.55	145.2	74.55	145.6	UL-RL 2.3432E+04	-10.00	39.45
1.000	1.000	184.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
52 D	38.01	1.4399E-02	76.34	148.6	76.34	149.0	UL-RL 2.3432E+04	-10.20	41.46
1.000	1.000	190.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
53 D	38.91	1.3858E-02	78.12	151.1	78.12	151.5	UL-RL 2.3432E+04	-10.40	43.48
1.000	1.000	194.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
54 D	38.65	1.3326E-02	79.91	147.8	79.91	148.1	UL-RL 2.3432E+04	-10.60	45.49
1.000	1.000	193.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
55 D	38.40	1.2802E-02	81.70	144.5	81.70	144.9	UL-RL 2.3432E+04	-10.80	47.50
1.000	1.000	192.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
56 D	38.17	1.2287E-02	83.48	141.3	83.48	141.7	UL-RL 2.3432E+04	-11.00	49.52
1.000	1.000	190.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
57 D	37.95	1.1780E-02	85.27	138.2	85.27	138.6	UL-RL 2.3432E+04	-11.20	51.53
1.000	1.000	189.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
58 D	37.75	1.1283E-02	87.06	135.2	87.06	135.6	UL-RL 2.3432E+04	-11.40	53.54
1.000	1.000	188.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
59 D	37.56	1.0796E-02	88.85	132.2	88.85	132.6	UL-RL 2.3432E+04	-11.60	55.55
1.000	1.000	187.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0		0.0000

0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	37.39	1.0318E-02	90.63	129.4	90.63	129.7	UL-RL	2.3432E+04	-11.80	57.57
1.000	1.000	186.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	37.23	9.8497E-03	92.42	126.6	92.42	126.9	UL-RL	2.3432E+04	-12.00	59.58
1.000	1.000	186.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	55.60	9.3919E-03	94.33	216.4	94.33	217.6	UL-RL	7.7899E+04	-12.20	61.59
1.000	1.000	278.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	56.86	8.9446E-03	96.42	220.7	96.42	221.9	UL-RL	7.7899E+04	-12.40	63.60
1.000	1.000	284.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	58.13	8.5081E-03	98.50	225.0	98.50	226.2	UL-RL	7.7899E+04	-12.60	65.62
1.000	1.000	290.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	59.40	8.0825E-03	100.6	229.4	100.6	230.5	UL-RL	7.7899E+04	-12.80	67.63
1.000	1.000	297.0	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	60.66	7.6680E-03	102.7	233.7	102.7	234.8	UL-RL	7.7899E+04	-13.00	69.64
1.000	1.000	303.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	61.93	7.2648E-03	104.8	238.0	104.8	239.1	UL-RL	7.7899E+04	-13.20	71.65
1.000	1.000	309.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	61.63	6.8730E-03	106.9	234.5	106.9	235.6	UL-RL	7.7899E+04	-13.40	73.67
1.000	1.000	308.2	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	60.26	6.4928E-03	108.9	225.6	108.9	226.7	UL-RL	7.7899E+04	-13.60	75.68
1.000	1.000	301.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	58.95	6.1242E-03	111.0	217.1	111.0	218.1	UL-RL	7.7899E+04	-13.80	77.69
1.000	1.000	294.8	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	57.70	5.7673E-03	113.1	208.8	113.1	209.9	UL-RL	7.7899E+04	-14.00	79.71
1.000	1.000	288.5	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	65.24	5.4221E-03	115.4	244.5	115.4	245.8	UL-RL	1.0210E+05	-14.20	81.72
1.000	1.000	326.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	63.61	5.0885E-03	117.8	234.3	117.8	235.7	UL-RL	1.0210E+05	-14.40	83.73
1.000	1.000	318.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	62.06	4.7666E-03	120.3	224.6	120.3	225.9	UL-RL	1.0210E+05	-14.60	85.74
1.000	1.000	310.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	60.60	4.4562E-03	122.8	215.2	122.8	216.5	UL-RL	1.0210E+05	-14.80	87.76
1.000	1.000	303.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	59.21	4.1573E-03	125.3	206.3	125.3	207.6	UL-RL	1.0210E+05	-15.00	89.77
1.000	1.000	296.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	57.89	3.8696E-03	127.8	197.7	127.8	199.0	UL-RL	1.0210E+05	-15.20	91.78
1.000	1.000	289.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	56.65	3.5928E-03	130.3	189.5	130.3	190.8	UL-RL	1.0210E+05	-15.40	93.79
1.000	1.000	283.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	55.49	3.3268E-03	132.8	181.6	132.8	182.9	UL-RL	1.0210E+05	-15.60	95.81
1.000	1.000	277.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	54.39	3.0713E-03	135.3	174.1	135.3	175.4	UL-RL	1.0210E+05	-15.80	97.82
1.000	1.000	272.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	53.36	2.8258E-03	137.7	167.0	137.7	168.3	UL-RL	1.0210E+05	-16.00	99.83
1.000	1.000	266.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	52.40	2.5900E-03	140.2	160.2	140.2	161.4	UL-RL	1.0210E+05	-16.20	101.8
1.000	1.000	262.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	51.51	2.3637E-03	142.7	153.7	142.7	154.9	UL-RL	1.0210E+05	-16.40	103.9
1.000	1.000	257.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
84 D	50.67	2.1462E-03	145.2	147.5	145.2	148.7	UL-RL	1.0210E+05	-16.60	105.9
1.000	1.000	253.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
85 D	49.89	1.9373E-03	147.7	141.6	147.7	142.8	UL-RL	1.0210E+05	-16.80	107.9
1.000	1.000	249.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
86 D	49.17	1.7365E-03	150.2	135.9	150.2	137.2	UL-RL	1.0210E+05	-17.00	109.9
1.000	1.000	245.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
87 D	48.50	1.5434E-03	152.7	130.6	152.7	131.8	UL-RL	1.0210E+05	-17.20	111.9
1.000	1.000	242.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
88 D	47.88	1.3574E-03	155.2	125.5	155.2	126.7	UL-RL	1.0210E+05	-17.40	113.9
1.000	1.000	239.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
89 D	47.30	1.1781E-03	157.6	120.6	157.6	121.8	UL-RL	1.0210E+05	-17.60	115.9
1.000	1.000	236.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
90 D	46.76	1.0050E-03	160.1	115.9	160.1	117.2	UL-RL	1.0210E+05	-17.80	117.9

1.000	1.000	233.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	46.27	8.3763E-04	162.6	111.4	162.6	112.7	UL-RL 1.0210E+05	-18.00	120.0
1.000	1.000	231.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	45.77	6.7552E-04	165.1	106.9	165.1	108.5	UL-RL 1.0210E+05	-18.20	122.0
1.000	1.000	228.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	44.62	5.1817E-04	167.6	99.13	167.6	106.1	UL-RL 1.0210E+05	-18.40	124.0
1.000	1.000	223.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	43.54	3.6509E-04	170.1	91.69	170.1	103.8	UL-RL 1.0210E+05	-18.60	126.0
1.000	1.000	217.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	42.50	2.1580E-04	172.6	84.50	172.6	101.6	UL-RL 1.0210E+05	-18.80	128.0
1.000	1.000	212.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	41.51	6.9827E-05	175.1	77.53	175.1	99.48	UL-RL 1.0210E+05	-19.00	130.0
1.000	1.000	207.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	40.56	-7.3281E-05	177.5	70.75	177.5	97.38	UL-RL 1.0210E+05	-19.20	132.0
1.000	1.000	202.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	39.10	-2.1396E-04	180.0	61.47	180.0	96.66	UL-RL 1.0210E+05	-19.40	134.0
1.000	1.000	195.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	37.13	-3.5263E-04	182.5	49.60	182.5	97.33	UL-RL 1.0210E+05	-19.60	136.1
1.000	1.000	185.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	35.19	-4.8967E-04	185.0	37.87	185.0	98.02	UL-RL 1.0210E+05	-19.80	138.1
1.000	1.000	175.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	33.27	-6.2545E-04	187.5	26.26	187.5	98.72	UL-RL 1.0210E+05	-20.00	140.1
1.000	1.000	166.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	32.50	-7.6029E-04	190.0	20.39	190.0	99.42	ACTIVE 0.000	-20.20	142.1
1.000	1.000	162.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	33.08	-8.9446E-04	192.5	21.29	192.5	100.1	ACTIVE 0.000	-20.40	144.1
1.000	1.000	165.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	33.66	-1.0282E-03	195.0	22.18	195.0	100.8	ACTIVE 0.000	-20.60	146.1
1.000	1.000	168.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	34.24	-1.1617E-03	197.4	23.08	197.4	101.6	ACTIVE 0.000	-20.80	148.1
1.000	1.000	171.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	34.82	-1.2951E-03	199.9	23.97	199.9	102.3	ACTIVE 0.000	-21.00	150.1
1.000	1.000	174.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	17.70	-1.4284E-03	202.4	24.87	202.4	103.1	ACTIVE 0.000	-21.20	152.2
1.000	1.000	177.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0	0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:02          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 2.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	-4.36108E-09	4.36108E-09	-4.34243E-10	1.09148E-09
2	0.30984	-0.30984	-2.90671E-09	6.19680E-02
3	0.88550	-0.88550	-6.19680E-02	0.23907
4	1.7269	-1.7269	-0.23907	0.58444
5	2.8339	-2.8339	-0.58444	1.1512
6	4.2068	-4.2068	-1.1512	1.9926
7	5.8453	-5.8453	-1.9926	3.1616
8	7.7497	-7.7497	-3.1616	4.7116
9	9.9199	-9.9199	-4.7116	6.6956
10	12.356	-12.356	-6.6956	9.1668
11	15.058	-15.058	-9.1668	12.178
12	18.026	-18.026	-12.178	15.783
13	21.260	-21.260	-15.783	20.035
14	24.759	-24.759	-20.035	24.987
15	28.525	-28.525	-24.987	30.692

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|                PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*                |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:02                               |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

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WallElement_New_75260
ELEMENT TYPE   2  NO.OF ELEMENTS. IN THIS GROUP   91
C U R R E N T   T I M E   I S   2.0000 SUBINCREMENT 00001/00001

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	32.557	-32.557	-30.692	37.204
2	36.855	-36.855	-37.204	44.575
3	41.418	-41.418	-44.575	52.858
4	46.248	-46.248	-52.858	62.108
5	51.344	-51.344	-62.108	72.377
6	63.569	-63.569	-72.377	85.091
7	75.031	-75.031	-85.091	100.10
8	85.731	-85.731	-100.10	117.24
9	95.669	-95.669	-117.24	136.38
10	104.84	-104.84	-136.38	157.35
11	113.26	-113.26	-157.35	180.00
12	120.91	-120.91	-180.00	204.18
13	127.80	-127.80	-204.18	229.74
14	133.93	-133.93	-229.74	256.52
15	139.29	-139.29	-256.52	284.38
16	143.92	-143.92	-284.38	313.17
17	148.05	-148.05	-313.17	342.78
18	151.83	-151.83	-342.78	373.14
19	155.25	-155.25	-373.14	404.19
20	158.32	-158.32	-404.19	435.86
21	161.04	-161.04	-435.86	468.07
22	163.40	-163.40	-468.07	500.75
23	165.40	-165.40	-500.75	533.83
24	167.06	-167.06	-533.83	567.24
25	168.35	-168.35	-567.24	600.91
26	169.29	-169.29	-600.91	634.77
27	169.88	-169.88	-634.77	668.74
28	170.10	-170.10	-668.74	702.76
29	169.98	-169.98	-702.76	736.76
30	169.49	-169.49	-736.76	770.66
31	168.68	-168.68	-770.66	804.39
32	167.53	-167.53	-804.39	837.90
33	166.05	-166.05	-837.90	871.11
34	164.24	-164.24	-871.11	903.96
35	162.09	-162.09	-903.96	936.38
36	159.61	-159.61	-936.38	968.30
37	156.79	-156.79	-968.30	999.65
38	153.82	-153.82	-999.65	1030.4
39	151.85	-151.85	-1030.4	1060.8
40	150.87	-150.87	-1060.8	1091.0
41	150.86	-150.86	-1091.0	1121.1
42	151.81	-151.81	-1121.1	1151.5
43	153.71	-153.71	-1151.5	1182.2
44	156.53	-156.53	-1182.2	1213.5
45	160.27	-160.27	-1213.5	1245.6
46	164.91	-164.91	-1245.6	1278.6
47	149.06	-149.06	-1278.6	1308.4
48	132.72	-132.72	-1308.4	1334.9
49	115.89	-115.89	-1334.9	1358.1
50	98.567	-98.567	-1358.1	1377.8
51	80.759	-80.759	-1377.8	1394.0
52	62.462	-62.462	-1394.0	1406.5
53	45.241	-45.241	-1406.5	1415.5
54	30.167	-30.167	-1415.5	1421.6
55	17.179	-17.179	-1421.6	1425.0
56	6.2179	-6.2179	-1425.0	1426.2
57	-27.575	27.575	-1426.2	1420.7
58	-58.973	58.973	-1420.7	1408.9
59	-88.055	88.055	-1408.9	1391.3
60	-114.90	114.90	-1391.3	1368.3
61	-139.59	139.59	-1368.3	1340.4
62	-162.19	162.19	-1340.4	1308.0
63	-182.78	182.78	-1308.0	1271.4
64	-201.44	201.44	-1271.4	1231.1
65	-218.23	218.23	-1231.1	1187.5
66	-233.22	233.22	-1187.5	1140.8
67	-246.49	246.49	-1140.8	1091.5
68	-258.09	258.09	-1091.5	1039.9
69	-268.08	268.08	-1039.9	986.31
70	-276.54	276.54	-986.31	931.00

71	-283.53	283.53	-931.00	874.30
72	-289.09	289.09	-874.30	816.48
73	-293.27	293.27	-816.48	757.83
74	-296.12	296.12	-757.83	698.60
75	-297.68	297.68	-698.60	639.06
76	-298.00	298.00	-639.06	579.47
77	-296.98	296.98	-579.47	520.07
78	-292.87	292.87	-520.07	461.49
79	-286.14	286.14	-461.49	404.27
80	-277.33	277.33	-404.27	348.80
81	-266.49	266.49	-348.80	295.50
82	-253.66	253.66	-295.50	244.77
83	-238.07	238.07	-244.77	197.16
84	-218.89	218.89	-197.16	153.38
85	-196.17	196.17	-153.38	114.14
86	-169.95	169.95	-114.14	80.156
87	-141.36	141.36	-80.156	51.882
88	-111.77	111.77	-51.882	29.527
89	-81.188	81.188	-29.527	13.290
90	-49.569	49.569	-13.290	3.3758
91	-16.880	16.880	-3.3758	8.37019E-11

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ITER      0  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.5710E+07 RIMNOR=0.1350E+09
             RENORM= 2022.      REMNOR=0.1174E-15 RATIO =0.1882E-01 TOLER =0.1000E-03 NOT CONVERGED
             RFMAX = 298.0      RMMAX = 1426.
             RTSMAL=0.1000E-02 RMSMAL=0.1000E-01
             RDT  =0.5710E+07 RDR  =0.1350E+09
             RATIO=0.1882E-01 RATIO= 0.000
             MAX UN= 11.76      IEQ= 133 NODE      67 DOF  1  Y-DISPL.F
             MIN UN=-.4876E-08 IEQ= 157 NODE      79 DOF  1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.5710E+07 RIMNOR=0.1350E+09
             RENORM= 958.9      REMNOR=0.1270E-15 RATIO =0.1296E-01 TOLER =0.1000E-03 NOT CONVERGED
             RFMAX = 298.0      RMMAX = 1426.
             RTSMAL=0.1000E-02 RMSMAL=0.1000E-01
             RDT  =0.5710E+07 RDR  =0.1350E+09
             RATIO=0.1296E-01 RATIO= 0.000
             MAX UN= 8.143      IEQ= 143 NODE      72 DOF  1  Y-DISPL.F
             MIN UN=-2.241     IEQ= 211 NODE     106 DOF  1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      3  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.5710E+07 RIMNOR=0.1350E+09
             RENORM=0.1324E+05 REMNOR=0.1463E-14 RATIO =0.4816E-01 TOLER =0.1000E-03 NOT CONVERGED
             RFMAX = 298.0      RMMAX = 1426.
             RTSMAL=0.1000E-02 RMSMAL=0.1000E-01
             RDT  =0.5710E+07 RDR  =0.1350E+09
             RATIO=0.4816E-01 RATIO= 0.000
             MAX UN= 40.11      IEQ= 171 NODE      86 DOF  1  Y-DISPL.F
             MIN UN=-41.16     IEQ= 201 NODE     101 DOF  1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      4  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.5710E+07 RIMNOR=0.1350E+09
             RENORM= 4082.      REMNOR=0.1955E-14 RATIO =0.2674E-01 TOLER =0.1000E-03 NOT CONVERGED
             RFMAX = 298.0      RMMAX = 1426.
             RTSMAL=0.1000E-02 RMSMAL=0.1000E-01
             RDT  =0.5710E+07 RDR  =0.1350E+09
             RATIO=0.2674E-01 RATIO= 0.000
             MAX UN= 40.51      IEQ= 159 NODE      80 DOF  1  Y-DISPL.F
             MIN UN=-2.545     IEQ= 189 NODE     95 DOF  1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      5  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.5710E+07 RIMNOR=0.1350E+09
             RENORM= 2722.      REMNOR=0.2435E-14 RATIO =0.2183E-01 TOLER =0.1000E-03 NOT CONVERGED
             RFMAX = 298.0      RMMAX = 1426.
             RTSMAL=0.1000E-02 RMSMAL=0.1000E-01
             RDT  =0.5710E+07 RDR  =0.1350E+09
             RATIO=0.2183E-01 RATIO= 0.000
             MAX UN= 28.22      IEQ= 189 NODE      95 DOF  1  Y-DISPL.F
             MIN UN=-22.81     IEQ= 191 NODE     96 DOF  1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      6  RNORM = 16.81      RMNORM= 0.000
             RINORM=0.5710E+07 RIMNOR=0.1350E+09
             RENORM= 140.2      REMNOR=0.1773E-14 RATIO =0.4955E-02 TOLER =0.1000E-03 NOT CONVERGED
             RFMAX = 298.0      RMMAX = 1426.
             RTSMAL=0.1000E-02 RMSMAL=0.1000E-01
             RDT  =0.5710E+07 RDR  =0.1350E+09
             RATIO=0.4955E-02 RATIO= 0.000
             MAX UN= 10.44      IEQ= 177 NODE      89 DOF  1  Y-DISPL.F
             MIN UN=-.2133E-06 IEQ= 49 NODE      25 DOF  1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 7 RNORM = 16.81 RMNORM= 0.000
RINORM=0.5710E+07 RIMNOR=0.1350E+09
RENORM= 22.92 REMNOR=0.2650E-14 RATIO =0.2004E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 298.0 RMMAX = 1426.
RTSMAL=0.1000E-02 RMSMAL=0.1000E-01
RDT =0.5710E+07 RDR =0.1350E+09
RATIOT=0.2004E-02 RATIO= 0.000
MAX UN= 4.188 IEQ= 193 NODE 97 DOF 1 Y-DISPL.F
MIN UN=-2.207 IEQ= 197 NODE 99 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 8 RNORM = 16.81 RMNORM= 0.000
RINORM=0.5710E+07 RIMNOR=0.1350E+09
RENORM=0.5627E-12 REMNOR=0.2658E-14 RATIO =0.3139E-09 TOLER =0.1000E-03 CONVERGED !
RFMAX = 298.0 RMMAX = 1426.
RTSMAL=0.1000E-02 RMSMAL=0.1000E-01
RDT =0.5710E+07 RDR =0.1350E+09
RATIOT=0.3139E-09 RATIO= 0.000
MAX UN=0.2671E-06 IEQ= 55 NODE 28 DOF 1 Y-DISPL.F
MIN UN=-.2346E-06 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

75 3.1639316E-02 -8.5045936E-03
76 2.9949373E-02 -8.3947187E-03
77 2.8281463E-02 -8.2843247E-03
78 2.6635653E-02 -8.1737814E-03
79 2.5011936E-02 -8.0634616E-03
80 2.3410229E-02 -7.9537415E-03
81 2.1830374E-02 -7.8450000E-03
82 2.0272138E-02 -7.7376195E-03
83 1.8735210E-02 -7.6319854E-03
84 1.7219202E-02 -7.5284863E-03
85 1.5723647E-02 -7.4275139E-03
86 1.4248001E-02 -7.3294631E-03
87 1.2791640E-02 -7.2347318E-03
88 1.1353860E-02 -7.1437213E-03
89 9.9338768E-03 -7.0568358E-03
90 8.5307542E-03 -6.9744789E-03
91 7.1436851E-03 -6.8970694E-03
92 5.7715709E-03 -6.8249924E-03
93 4.4133109E-03 -6.7585752E-03
94 3.0677468E-03 -6.6980684E-03
95 1.7336779E-03 -6.6436457E-03
96 4.0987636E-04 -6.5954052E-03
97 -9.0489877E-04 -6.5533836E-03
98 -2.2118914E-03 -6.5175760E-03
99 -3.5123355E-03 -6.4878626E-03
100 -4.8074225E-03 -6.4639403E-03
101 -6.0982687E-03 -6.4453747E-03
102 -7.3858945E-03 -6.4316417E-03
103 -8.6712713E-03 -6.4221340E-03
104 -9.9550484E-03 -6.4161661E-03
105 -1.1237923E-02 -6.4129720E-03
106 -1.2520366E-02 -6.4117067E-03
107 -1.3802608E-02 -6.4114457E-03

1.000	1.000	67.07	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
23 D	14.08	-0.1392	83.60	70.40	85.43	72.01	ACTIVE	0.000	-4.400	0.000
1.000	1.000	70.40	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
24 D	14.75	-0.1369	87.40	73.74	89.30	75.41	ACTIVE	0.000	-4.600	0.000
1.000	1.000	73.74	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
25 D	15.42	-0.1347	91.20	77.08	93.18	78.81	ACTIVE	0.000	-4.800	0.000
1.000	1.000	77.08	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
26 D	16.08	-0.1325	95.00	80.41	97.05	82.21	ACTIVE	0.000	-5.000	0.000
1.000	1.000	80.41	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
27 D	16.75	-0.1302	98.80	83.75	100.9	85.62	ACTIVE	0.000	-5.200	0.000
1.000	1.000	83.75	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
28 D	17.42	-0.1280	102.6	87.08	104.8	89.02	ACTIVE	0.000	-5.400	0.000
1.000	1.000	87.08	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
29 D	18.08	-0.1258	106.4	90.42	108.7	92.42	ACTIVE	0.000	-5.600	0.000
1.000	1.000	90.42	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	18.75	-0.1235	110.2	93.76	112.6	95.82	ACTIVE	0.000	-5.800	0.000
1.000	1.000	93.76	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	19.45	-0.1213	112.9	96.10	115.3	98.23	ACTIVE	0.000	-6.000	1.127
1.000	1.000	97.23	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	20.16	-0.1191	114.7	97.70	117.2	99.89	ACTIVE	0.000	-6.200	3.114
1.000	1.000	100.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	20.88	-0.1169	116.5	99.29	119.1	101.5	ACTIVE	0.000	-6.400	5.101
1.000	1.000	104.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	21.59	-0.1146	118.3	100.9	121.0	103.2	ACTIVE	0.000	-6.600	7.089
1.000	1.000	108.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	22.31	-0.1124	120.1	102.5	122.8	104.8	ACTIVE	0.000	-6.800	9.076
1.000	1.000	111.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	23.03	-0.1102	121.9	104.1	124.7	106.5	ACTIVE	0.000	-7.000	11.06
1.000	1.000	115.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	23.74	-0.1080	123.7	105.7	126.6	108.2	ACTIVE	0.000	-7.200	13.05
1.000	1.000	118.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	24.46	-0.1058	125.6	107.2	128.5	109.8	ACTIVE	0.000	-7.400	15.04
1.000	1.000	122.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	25.17	-0.1036	127.4	108.8	130.4	111.5	ACTIVE	0.000	-7.600	17.03
1.000	1.000	125.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	25.89	-0.1014	129.2	110.4	132.2	113.1	ACTIVE	0.000	-7.800	19.01
1.000	1.000	129.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	26.60	-9.9241E-02	131.0	112.0	134.1	114.8	ACTIVE	0.000	-8.000	21.00
1.000	1.000	133.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	27.32	-9.7063E-02	132.8	113.6	136.0	116.4	ACTIVE	0.000	-8.200	22.99
1.000	1.000	136.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	28.04	-9.4892E-02	134.6	115.2	137.9	118.0	ACTIVE	0.000	-8.400	24.97
1.000	1.000	140.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	28.75	-9.2727E-02	136.4	116.8	139.7	119.7	ACTIVE	0.000	-8.600	26.96
1.000	1.000	143.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	29.47	-9.0570E-02	138.3	118.4	141.6	121.3	ACTIVE	0.000	-8.800	28.95
1.000	1.000	147.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	30.18	-8.8421E-02	140.1	120.0	143.7	123.1	ACTIVE	0.000	-9.000	30.94
1.000	1.000	150.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	30.90	-8.6280E-02	141.9	121.6	145.7	125.0	ACTIVE	0.000	-9.200	32.92
1.000	1.000	154.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	31.61	-8.4148E-02	143.7	123.2	147.8	126.8	ACTIVE	0.000	-9.400	34.91
1.000	1.000	158.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	32.33	-8.2025E-02	145.5	124.8	149.9	128.6	ACTIVE	0.000	-9.600	36.90
1.000	1.000	161.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	33.05	-7.9911E-02	147.3	126.3	151.9	130.4	ACTIVE	0.000	-9.800	38.89
1.000	1.000	165.2	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	33.76	-7.7808E-02	149.1	127.9	154.0	132.2	ACTIVE	0.000	-10.000	40.87
1.000	1.000	168.8	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	34.48	-7.5715E-02	150.9	129.5	156.0	134.0	ACTIVE	0.000	-10.200	42.86
1.000	1.000	172.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0	0.0000		
0.0000	0.0000	0.0000	0.0000	0.0000						

53 D	35.19	-7.3633E-02	152.8	131.1	158.1	135.8	ACTIVE	0.000	-10.40	44.85
1.000	1.000	176.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	35.91	-7.1562E-02	154.6	132.7	160.1	137.6	ACTIVE	0.000	-10.60	46.83
1.000	1.000	179.5	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	36.62	-6.9504E-02	156.4	134.3	162.1	139.3	ACTIVE	0.000	-10.80	48.82
1.000	1.000	183.1	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	37.34	-6.7458E-02	158.2	135.9	164.1	141.1	ACTIVE	0.000	-11.00	50.81
1.000	1.000	186.7	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	38.06	-6.5424E-02	160.0	137.5	166.2	142.9	ACTIVE	0.000	-11.20	52.80
1.000	1.000	190.3	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	38.77	-6.3405E-02	161.8	139.1	168.2	144.7	ACTIVE	0.000	-11.40	54.78
1.000	1.000	193.9	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	39.49	-6.1399E-02	163.6	140.7	170.2	146.4	ACTIVE	0.000	-11.60	56.77
1.000	1.000	197.4	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
60 D	40.20	-5.9408E-02	165.4	142.3	172.2	148.2	ACTIVE	0.000	-11.80	58.76
1.000	1.000	201.0	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
61 D	40.92	-5.7431E-02	167.3	143.9	174.2	150.0	ACTIVE	0.000	-12.00	60.75
1.000	1.000	204.6	0.000	0.000	1.600	1.600	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
62 D	38.61	-5.5471E-02	169.2	130.3	176.3	136.5	ACTIVE	0.000	-12.20	62.73
1.000	1.000	193.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
63 D	39.37	-5.3526E-02	171.3	132.2	178.6	138.4	ACTIVE	0.000	-12.40	64.72
1.000	1.000	196.9	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
64 D	40.13	-5.1599E-02	173.4	134.0	180.9	140.4	ACTIVE	0.000	-12.60	66.71
1.000	1.000	200.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
65 D	40.89	-4.9688E-02	175.5	135.8	183.2	142.4	ACTIVE	0.000	-12.80	68.70
1.000	1.000	204.5	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
66 D	41.65	-4.7795E-02	177.6	137.6	185.5	144.3	ACTIVE	0.000	-13.00	70.68
1.000	1.000	208.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
67 D	42.41	-4.5921E-02	179.7	139.4	187.8	146.3	ACTIVE	0.000	-13.20	72.67
1.000	1.000	212.1	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
68 D	43.17	-4.4065E-02	181.9	141.2	190.1	148.3	ACTIVE	0.000	-13.40	74.66
1.000	1.000	215.9	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
69 D	43.93	-4.2229E-02	184.0	143.0	192.4	150.2	ACTIVE	0.000	-13.60	76.64
1.000	1.000	219.7	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
70 D	44.69	-4.0412E-02	186.1	144.8	194.6	152.2	ACTIVE	0.000	-13.80	78.63
1.000	1.000	223.5	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
71 D	45.45	-3.8616E-02	188.2	146.7	196.9	154.1	ACTIVE	0.000	-14.00	80.62
1.000	1.000	227.3	0.000	0.000	8.000	8.000	Salt_175_16_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
72 D	30.32	-3.6840E-02	190.5	68.97	199.3	98.40	ACTIVE	0.000	-14.20	82.61
1.000	1.000	151.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
73 D	31.07	-3.5085E-02	193.0	70.78	202.0	99.61	ACTIVE	0.000	-14.40	84.59
1.000	1.000	155.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
74 D	31.83	-3.3351E-02	195.5	72.58	204.7	100.8	ACTIVE	0.000	-14.60	86.58
1.000	1.000	159.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
75 D	32.59	-3.1639E-02	198.0	74.38	207.3	102.0	ACTIVE	0.000	-14.80	88.57
1.000	1.000	163.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
76 D	33.35	-2.9949E-02	200.5	76.19	210.0	103.3	ACTIVE	0.000	-15.00	90.56
1.000	1.000	166.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
77 D	34.11	-2.8281E-02	203.0	77.99	212.6	104.5	ACTIVE	0.000	-15.20	92.54
1.000	1.000	170.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
78 D	34.87	-2.6636E-02	205.5	79.80	215.3	105.7	ACTIVE	0.000	-15.40	94.53
1.000	1.000	174.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
79 D	35.62	-2.5012E-02	208.1	81.60	218.0	106.9	ACTIVE	0.000	-15.60	96.52
1.000	1.000	178.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
80 D	36.38	-2.3410E-02	210.6	83.40	220.6	108.1	ACTIVE	0.000	-15.80	98.50
1.000	1.000	181.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
81 D	37.14	-2.1830E-02	213.1	85.21	223.3	109.3	ACTIVE	0.000	-16.00	100.5
1.000	1.000	185.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
82 D	37.90	-2.0272E-02	215.6	87.01	225.9	110.6	ACTIVE	0.000	-16.20	102.5
1.000	1.000	189.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
83 D	38.66	-1.8735E-02	218.1	88.82	228.5	111.8	ACTIVE	0.000	-16.40	104.5
1.000	1.000	193.3	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000							
84 D	39.42	-1.7219E-02	220.6	90.62	231.2	113.0	ACTIVE	0.000	-16.60	106.5	
1.000	1.000	197.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
85 D	40.17	-1.5724E-02	223.1	92.43	233.6	114.2	ACTIVE	0.000	-16.80	108.4	
1.000	1.000	200.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
86 D	40.93	-1.4248E-02	225.7	94.23	236.1	115.4	ACTIVE	0.000	-17.00	110.4	
1.000	1.000	204.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
87 D	41.69	-1.2792E-02	228.2	96.03	238.6	116.6	ACTIVE	0.000	-17.20	112.4	
1.000	1.000	208.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
88 D	42.45	-1.1354E-02	230.7	97.84	241.0	117.9	ACTIVE	0.000	-17.40	114.4	
1.000	1.000	212.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
89 D	43.21	-9.9339E-03	233.2	99.64	243.5	119.1	ACTIVE	0.000	-17.60	116.4	
1.000	1.000	216.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
90 D	43.96	-8.5308E-03	235.7	101.4	245.9	120.3	ACTIVE	0.000	-17.80	118.4	
1.000	1.000	219.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
91 D	44.72	-7.1437E-03	238.2	103.3	248.4	121.5	ACTIVE	0.000	-18.00	120.4	
1.000	1.000	223.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
92 D	45.48	-5.7716E-03	240.7	105.1	250.9	122.8	ACTIVE	0.000	-18.20	122.4	
1.000	1.000	227.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
93 D	46.24	-4.4133E-03	243.2	106.9	253.3	127.3	ACTIVE	0.000	-18.40	124.3	
1.000	1.000	231.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
94 D	47.00	-3.0677E-03	245.8	108.7	255.8	140.2	ACTIVE	0.000	-18.60	126.3	
1.000	1.000	235.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
95 D	47.76	-1.7337E-03	248.3	110.5	258.2	153.0	ACTIVE	0.000	-18.80	128.3	
1.000	1.000	238.8	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
96 D	48.51	-4.0988E-04	250.8	112.3	260.7	173.9	ACTIVE	0.000	-19.00	130.3	
1.000	1.000	242.6	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
97 D	49.27	9.0490E-04	253.3	114.1	263.2	200.9	ACTIVE	0.000	-19.20	132.3	
1.000	1.000	246.4	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
98 D	64.20	2.2119E-03	255.8	186.7	265.6	229.3	UL-RL	1.1296E+05	-19.40	134.3	
1.000	1.000	321.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
99 D	79.21	3.5123E-03	258.3	259.8	268.1	267.4	UL-RL	1.1296E+05	-19.60	136.3	
1.000	1.000	396.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
100 D	90.20	4.8074E-03	260.8	312.8	270.6	315.3	UL-RL	1.1296E+05	-19.80	138.3	
1.000	1.000	451.0	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
101 D	100.8	6.0983E-03	263.3	363.9	273.0	363.9	V-C	3.7653E+04	-20.00	140.2	
1.000	1.000	504.1	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
102 D	111.1	7.3859E-03	265.9	413.2	275.5	413.2	V-C	3.7653E+04	-20.20	142.2	
1.000	1.000	555.5	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
103 D	121.3	8.6713E-03	268.4	462.5	278.0	462.5	V-C	3.7653E+04	-20.40	144.2	
1.000	1.000	606.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
104 D	131.6	9.9550E-03	270.9	511.7	280.4	511.7	V-C	3.7653E+04	-20.60	146.2	
1.000	1.000	657.9	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
105 D	141.8	1.1238E-02	273.4	561.0	282.9	561.0	V-C	3.7653E+04	-20.80	148.2	
1.000	1.000	709.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
106 D	152.1	1.2520E-02	275.9	610.5	285.4	610.5	V-C	3.7653E+04	-21.00	150.2	
1.000	1.000	760.7	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
107 D	81.22	1.3803E-02	278.4	660.1	287.8	660.1	V-C	3.7653E+04	-21.20	152.2	
1.000	1.000	812.2	0.000	0.000	40.00	40.00	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							

29 D	10.30	0.1258	30.40	51.50	30.40	61.98	PASSIVE	0.000	-5.600	0.000
1.000	1.000	51.50	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
30 D	11.48	0.1235	34.20	57.42	34.20	69.18	PASSIVE	0.000	-5.800	0.000
1.000	1.000	57.42	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
31 D	12.67	0.1213	38.00	63.35	38.00	76.38	PASSIVE	0.000	-6.000	0.000
1.000	1.000	63.35	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
32 D	13.61	0.1191	40.59	66.86	40.59	81.28	PASSIVE	0.000	-6.200	1.211
1.000	1.000	68.07	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
33 D	14.40	0.1169	42.38	68.76	42.38	84.67	PASSIVE	0.000	-6.400	3.223
1.000	1.000	71.98	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
34 D	15.18	0.1146	44.16	70.66	44.16	88.05	PASSIVE	0.000	-6.600	5.236
1.000	1.000	75.90	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
35 D	15.96	0.1124	45.95	72.57	45.95	91.44	PASSIVE	0.000	-6.800	7.249
1.000	1.000	79.82	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
36 D	16.75	0.1102	47.74	74.48	47.74	94.82	PASSIVE	0.000	-7.000	9.261
1.000	1.000	83.74	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
37 D	17.53	0.1080	49.53	76.39	49.53	98.21	PASSIVE	0.000	-7.200	11.27
1.000	1.000	87.66	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
38 D	18.32	0.1058	51.31	78.30	51.31	101.6	PASSIVE	0.000	-7.400	13.29
1.000	1.000	91.59	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
39 D	19.10	0.1036	53.10	80.21	53.10	105.0	PASSIVE	0.000	-7.600	15.30
1.000	1.000	95.51	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
40 D	19.89	0.1014	54.89	82.12	54.89	108.4	PASSIVE	0.000	-7.800	17.31
1.000	1.000	99.44	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
41 D	20.67	9.9241E-02	56.68	84.04	56.68	111.7	PASSIVE	0.000	-8.000	19.32
1.000	1.000	103.4	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
42 D	21.46	9.7063E-02	58.46	85.95	58.46	115.1	PASSIVE	0.000	-8.200	21.34
1.000	1.000	107.3	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
43 D	22.24	9.4892E-02	60.25	87.87	60.25	118.5	PASSIVE	0.000	-8.400	23.35
1.000	1.000	111.2	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
44 D	23.03	9.2727E-02	62.04	89.79	62.04	121.9	PASSIVE	0.000	-8.600	25.36
1.000	1.000	115.1	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
45 D	23.82	9.0570E-02	63.82	91.70	63.82	125.3	PASSIVE	0.000	-8.800	27.38
1.000	1.000	119.1	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
46 D	24.60	8.8421E-02	65.61	93.62	65.61	128.7	PASSIVE	0.000	-9.000	29.39
1.000	1.000	123.0	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
47 D	25.39	8.6280E-02	67.40	95.54	67.40	132.1	PASSIVE	0.000	-9.200	31.40
1.000	1.000	126.9	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
48 D	26.17	8.4148E-02	69.19	97.46	69.19	135.4	PASSIVE	0.000	-9.400	33.41
1.000	1.000	130.9	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
49 D	26.96	8.2025E-02	70.97	99.38	70.97	138.8	PASSIVE	0.000	-9.600	35.43
1.000	1.000	134.8	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
50 D	27.75	7.9911E-02	72.76	101.3	72.76	142.2	PASSIVE	0.000	-9.800	37.44
1.000	1.000	138.7	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
51 D	28.53	7.7808E-02	74.55	103.2	74.55	145.6	PASSIVE	0.000	-10.000	39.45
1.000	1.000	142.7	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
52 D	29.32	7.5715E-02	76.34	105.1	76.34	149.0	PASSIVE	0.000	-10.200	41.46
1.000	1.000	146.6	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
53 D	30.11	7.3633E-02	78.12	107.1	78.12	151.5	PASSIVE	0.000	-10.400	43.48
1.000	1.000	150.5	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
54 D	30.89	7.1562E-02	79.91	109.0	79.91	148.1	PASSIVE	0.000	-10.600	45.49
1.000	1.000	154.5	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
55 D	31.68	6.9504E-02	81.70	110.9	81.70	144.9	PASSIVE	0.000	-10.800	47.50
1.000	1.000	158.4	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
56 D	32.47	6.7458E-02	83.48	112.8	83.48	141.7	PASSIVE	0.000	-11.000	49.52
1.000	1.000	162.3	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
57 D	33.25	6.5424E-02	85.27	114.7	85.27	138.6	PASSIVE	0.000	-11.200	51.53
1.000	1.000	166.3	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
58 D	34.04	6.3405E-02	87.06	116.7	87.06	135.6	PASSIVE	0.000	-11.400	53.54
1.000	1.000	170.2	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000
0.0000	0.0000	0.0000	0.0000	0.0000						
59 D	34.83	6.1399E-02	88.85	118.6	88.85	132.6	PASSIVE	0.000	-11.600	55.55
1.000	1.000	174.1	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000

0.0000	0.0000	0.0000	0.0000	0.0000							
60 D	35.62	5.9408E-02	90.63	120.5	90.63	129.7	PASSIVE	0.000	-11.80	57.57	
1.000	1.000	178.1	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
61 D	36.40	5.7431E-02	92.42	122.4	92.42	126.9	PASSIVE	0.000	-12.00	59.58	
1.000	1.000	182.0	0.000	0.000	1.636	1.636	Ala_76024_15_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
62 D	45.26	5.5471E-02	94.33	164.7	94.33	217.6	PASSIVE	0.000	-12.20	61.59	
1.000	1.000	226.3	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
63 D	46.24	5.3526E-02	96.42	167.6	96.42	221.9	PASSIVE	0.000	-12.40	63.60	
1.000	1.000	231.2	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
64 D	47.23	5.1599E-02	98.50	170.5	98.50	226.2	PASSIVE	0.000	-12.60	65.62	
1.000	1.000	236.1	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
65 D	48.21	4.9688E-02	100.6	173.4	100.6	230.5	PASSIVE	0.000	-12.80	67.63	
1.000	1.000	241.0	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
66 D	49.19	4.7795E-02	102.7	176.3	102.7	234.8	PASSIVE	0.000	-13.00	69.64	
1.000	1.000	245.9	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
67 D	50.17	4.5921E-02	104.8	179.2	104.8	239.1	PASSIVE	0.000	-13.20	71.65	
1.000	1.000	250.8	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
68 D	51.15	4.4065E-02	106.9	182.1	106.9	235.6	PASSIVE	0.000	-13.40	73.67	
1.000	1.000	255.8	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
69 D	52.13	4.2229E-02	108.9	185.0	108.9	226.7	PASSIVE	0.000	-13.60	75.68	
1.000	1.000	260.7	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
70 D	53.12	4.0412E-02	111.0	187.9	111.0	218.1	PASSIVE	0.000	-13.80	77.69	
1.000	1.000	265.6	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
71 D	54.10	3.8616E-02	113.1	190.8	113.1	209.9	PASSIVE	0.000	-14.00	79.71	
1.000	1.000	270.5	0.000	0.000	8.179	8.179	Salt_175_16_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
72 D	73.67	3.6840E-02	115.4	286.6	115.4	286.6	PASSIVE	0.000	-14.20	81.72	
1.000	1.000	368.3	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
73 D	74.80	3.5085E-02	117.8	290.3	117.8	290.3	PASSIVE	0.000	-14.40	83.73	
1.000	1.000	374.0	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
74 D	75.94	3.3351E-02	120.3	294.0	120.3	294.0	PASSIVE	0.000	-14.60	85.74	
1.000	1.000	379.7	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
75 D	77.08	3.1639E-02	122.8	297.6	122.8	297.6	PASSIVE	0.000	-14.80	87.76	
1.000	1.000	385.4	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
76 D	78.22	2.9949E-02	125.3	301.3	125.3	301.3	PASSIVE	0.000	-15.00	89.77	
1.000	1.000	391.1	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
77 D	79.36	2.8281E-02	127.8	305.0	127.8	305.0	PASSIVE	0.000	-15.20	91.78	
1.000	1.000	396.8	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
78 D	80.50	2.6636E-02	130.3	308.7	130.3	308.7	PASSIVE	0.000	-15.40	93.79	
1.000	1.000	402.5	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
79 D	81.64	2.5012E-02	132.8	312.4	132.8	312.4	PASSIVE	0.000	-15.60	95.81	
1.000	1.000	408.2	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
80 D	82.78	2.3410E-02	135.3	316.1	135.3	316.1	PASSIVE	0.000	-15.80	97.82	
1.000	1.000	413.9	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
81 D	83.92	2.1830E-02	137.7	319.8	137.7	319.8	PASSIVE	0.000	-16.00	99.83	
1.000	1.000	419.6	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
82 D	85.06	2.0272E-02	140.2	323.5	140.2	323.5	PASSIVE	0.000	-16.20	101.8	
1.000	1.000	425.3	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
83 D	86.20	1.8735E-02	142.7	327.2	142.7	327.2	PASSIVE	0.000	-16.40	103.9	
1.000	1.000	431.0	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
84 D	87.35	1.7219E-02	145.2	330.9	145.2	330.9	PASSIVE	0.000	-16.60	105.9	
1.000	1.000	436.7	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
85 D	88.49	1.5724E-02	147.7	334.6	147.7	334.6	PASSIVE	0.000	-16.80	107.9	
1.000	1.000	442.4	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
86 D	89.63	1.4248E-02	150.2	338.3	150.2	338.3	PASSIVE	0.000	-17.00	109.9	
1.000	1.000	448.1	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
87 D	90.77	1.2792E-02	152.7	342.0	152.7	342.0	PASSIVE	0.000	-17.20	111.9	
1.000	1.000	453.9	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
88 D	91.92	1.1354E-02	155.2	345.7	155.2	345.7	PASSIVE	0.000	-17.40	113.9	
1.000	1.000	459.6	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
89 D	93.06	9.9339E-03	157.6	349.4	157.6	349.4	PASSIVE	0.000	-17.60	115.9	
1.000	1.000	465.3	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0			0.0000	
0.0000	0.0000	0.0000	0.0000	0.0000							
90 D	94.20	8.5308E-03	160.1	353.1	160.1	353.1	PASSIVE	0.000	-17.80	117.9	

1.000	1.000	471.0	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
91 D	89.36	7.1437E-03	162.6	326.9	162.6	326.9	V-C 3.4033E+04	-18.00	120.0
1.000	1.000	446.8	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
92 D	80.67	5.7716E-03	165.1	281.4	165.1	281.4	V-C 3.4033E+04	-18.20	122.0
1.000	1.000	403.3	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
93 D	72.07	4.4133E-03	167.6	236.4	167.6	236.4	V-C 3.4033E+04	-18.40	124.0
1.000	1.000	360.3	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
94 D	63.55	3.0677E-03	170.1	191.8	170.1	191.8	V-C 3.4033E+04	-18.60	126.0
1.000	1.000	317.8	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
95 D	55.12	1.7337E-03	172.6	147.6	172.6	147.6	V-C 3.4033E+04	-18.80	128.0
1.000	1.000	275.6	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
96 D	50.05	4.0988E-04	175.1	120.2	175.1	120.2	V-C 3.4033E+04	-19.00	130.0
1.000	1.000	250.3	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
97 D	46.58	-9.0490E-04	177.5	100.9	177.5	100.9	V-C 3.4033E+04	-19.20	132.0
1.000	1.000	232.9	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
98 D	37.65	-2.2119E-03	180.0	54.20	180.0	96.66	UL-RL 1.0210E+05	-19.40	134.0
1.000	1.000	188.2	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
99 D	31.92	-3.5123E-03	182.5	23.55	182.5	97.33	UL-RL 1.0210E+05	-19.60	136.1
1.000	1.000	159.6	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
100 D	31.58	-4.8074E-03	185.0	19.83	185.0	98.02	UL-RL 1.0210E+05	-19.80	138.1
1.000	1.000	157.9	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
101 D	31.70	-6.0983E-03	187.5	18.43	187.5	98.72	ACTIVE 0.000	-20.00	140.1
1.000	1.000	158.5	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
102 D	32.28	-7.3859E-03	190.0	19.32	190.0	99.42	ACTIVE 0.000	-20.20	142.1
1.000	1.000	161.4	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
103 D	32.87	-8.6713E-03	192.5	20.22	192.5	100.1	ACTIVE 0.000	-20.40	144.1
1.000	1.000	164.3	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
104 D	33.45	-9.9550E-03	195.0	21.11	195.0	100.8	ACTIVE 0.000	-20.60	146.1
1.000	1.000	167.2	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
105 D	34.03	-1.1238E-02	197.4	22.01	197.4	101.6	ACTIVE 0.000	-20.80	148.1
1.000	1.000	170.1	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
106 D	34.61	-1.2520E-02	199.9	22.90	199.9	102.3	ACTIVE 0.000	-21.00	150.1
1.000	1.000	173.1	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
107 D	17.60	-1.3803E-02	202.4	23.80	202.4	103.1	ACTIVE 0.000	-21.20	152.2
1.000	1.000	176.0	0.000	0.000	40.89	40.89	Pa_37608_76032_L_0		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
|                                                                                                                                            |
|                                                                                               ParatiePlus                               |
|                                                                                               Exe Time :28 January 2022   15:35:02          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 3

WallElement_11138 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 15
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.46220	-0.46220	3.02252E-09	9.24400E-02
2	1.6511	-1.6511	-9.24400E-02	0.42266
3	3.1044	-3.1044	-0.42266	1.0435
4	4.8223	-4.8223	-1.0435	2.0080
5	6.8046	-6.8046	-2.0080	3.3689
6	9.0514	-9.0514	-3.3689	5.1792
7	11.563	-11.563	-5.1792	7.4917
8	14.338	-14.338	-7.4917	10.359
9	17.379	-17.379	-10.359	13.835
10	20.683	-20.683	-13.835	17.972
11	24.253	-24.253	-17.972	22.822
12	28.086	-28.086	-22.822	28.440
13	32.184	-32.184	-28.440	34.877
14	36.547	-36.547	-34.877	42.186
15	41.174	-41.174	-42.186	50.421


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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2022.0.0  FULL VERSION  *Build date:Sep 13, 2021*          |
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New Project

S T R E S S R E S U L T S F O R G R O U P N O . 4

WallElement_New_75260 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 91
C U R R E N T T I M E I S 3.0000 SUBINCREMENT 00001/00001

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	46.074	-46.074	-50.421	59.636
2	51.247	-51.247	-59.636	69.885
3	56.685	-56.685	-69.885	81.222
4	62.387	-62.387	-81.222	93.699
5	68.353	-68.353	-93.699	107.37
6	80.753	-80.753	-107.37	123.52
7	92.164	-92.164	-123.52	141.95
8	103.06	-103.06	-141.95	162.56
9	113.43	-113.43	-162.56	185.25
10	123.29	-123.29	-185.25	209.91
11	132.63	-132.63	-209.91	236.43
12	141.45	-141.45	-236.43	264.72
13	149.75	-149.75	-264.72	294.67
14	157.53	-157.53	-294.67	326.18
15	164.80	-164.80	-326.18	359.14
16	171.58	-171.58	-359.14	393.46
17	178.13	-178.13	-393.46	429.08
18	184.61	-184.61	-429.08	466.00
19	191.02	-191.02	-466.00	504.21
20	197.37	-197.37	-504.21	543.68
21	203.64	-203.64	-543.68	584.41
22	209.85	-209.85	-584.41	626.38
23	215.99	-215.99	-626.38	669.58
24	222.06	-222.06	-669.58	713.99
25	228.06	-228.06	-713.99	759.60
26	233.99	-233.99	-759.60	806.40
27	239.86	-239.86	-806.40	854.37
28	245.65	-245.65	-854.37	903.50
29	251.37	-251.37	-903.50	953.78
30	257.02	-257.02	-953.78	1005.2
31	262.60	-262.60	-1005.2	1057.7
32	268.11	-268.11	-1057.7	1111.3
33	273.55	-273.55	-1111.3	1166.0
34	278.92	-278.92	-1166.0	1221.8
35	284.22	-284.22	-1221.8	1278.7
36	289.45	-289.45	-1278.7	1336.5
37	294.60	-294.60	-1336.5	1395.5
38	299.69	-299.69	-1395.5	1455.4
39	304.71	-304.71	-1455.4	1516.3
40	309.65	-309.65	-1516.3	1578.3
41	314.52	-314.52	-1578.3	1641.2
42	319.32	-319.32	-1641.2	1705.0
43	324.05	-324.05	-1705.0	1769.9
44	328.71	-328.71	-1769.9	1835.6
45	333.30	-333.30	-1835.6	1902.3
46	337.82	-337.82	-1902.3	1969.8
47	331.17	-331.17	-1969.8	2036.1
48	324.30	-324.30	-2036.1	2100.9
49	317.21	-317.21	-2100.9	2164.4
50	309.90	-309.90	-2164.4	2226.3
51	302.36	-302.36	-2226.3	2286.8
52	294.61	-294.61	-2286.8	2345.7
53	286.63	-286.63	-2345.7	2403.1
54	278.43	-278.43	-2403.1	2458.7
55	270.01	-270.01	-2458.7	2512.7
56	261.37	-261.37	-2512.7	2565.0
57	218.02	-218.02	-2565.0	2608.6
58	174.29	-174.29	-2608.6	2643.5
59	130.18	-130.18	-2643.5	2669.5
60	85.694	-85.694	-2669.5	2686.7
61	40.823	-40.823	-2686.7	2694.8
62	-4.4280	4.4280	-2694.8	2693.9
63	-50.061	50.061	-2693.9	2683.9
64	-96.076	96.076	-2683.9	2664.7
65	-142.47	142.47	-2664.7	2636.2
66	-189.25	189.25	-2636.2	2598.4
67	-236.42	236.42	-2598.4	2551.1
68	-283.96	283.96	-2551.1	2494.3
69	-331.89	331.89	-2494.3	2427.9
70	-380.21	380.21	-2427.9	2351.9

71	-428.91	428.91	-2351.9	2266.1
72	-477.99	477.99	-2266.1	2170.5
73	-527.45	527.45	-2170.5	2065.0
74	-577.31	577.31	-2065.0	1949.5
75	-627.54	627.54	-1949.5	1824.0
76	-672.18	672.18	-1824.0	1689.6
77	-707.37	707.37	-1689.6	1548.1
78	-733.20	733.20	-1548.1	1401.5
79	-749.75	749.75	-1401.5	1251.5
80	-757.11	757.11	-1251.5	1100.1
81	-758.65	758.65	-1100.1	948.37
82	-755.96	755.96	-948.37	797.18
83	-729.41	729.41	-797.18	651.29
84	-682.13	682.13	-651.29	514.87
85	-623.51	623.51	-514.87	390.17
86	-554.38	554.38	-390.17	279.29
87	-475.57	475.57	-279.29	184.17
88	-387.10	387.10	-184.17	106.75
89	-288.97	288.97	-106.75	48.956
90	-181.16	181.16	-48.956	12.724
91	-63.626	63.626	-12.724	-1.36851E-10

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2022.0.0 FULL VERSION *Build date:Sep 13, 2021*          |
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F I N A L I N C R E M E N T A L A N A L Y S I S

S U M M A R Y

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	6
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	8

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME ... 0.07 [sec]

DATABASE CREATION CPU TIME..... 0.20 [sec]

MU26 - Verifiche di stabilità globale

Definizione

Per pendio s'intende una porzione di versante naturale il cui profilo originario è stato modificato da interventi artificiali rilevanti rispetto alla stabilità. Per frana s'intende una situazione di instabilità che interessa versanti naturali e coinvolgono volumi considerevoli di terreno.

Introduzione all'analisi di stabilità

La risoluzione di un problema di stabilità richiede la presa in conto delle equazioni di campo e dei legami costitutivi. Le prime sono di equilibrio, le seconde descrivono il comportamento del terreno. Tali equazioni risultano particolarmente complesse in quanto i terreni sono dei sistemi multifase, che possono essere ricondotti a sistemi monofase solo in condizioni di terreno secco, o di analisi in condizioni drenate.

Nella maggior parte dei casi ci si trova a dover trattare un materiale che se saturo è per lo meno bifase, ciò rende la trattazione delle equazioni di equilibrio notevolmente complicata. Inoltre è praticamente impossibile definire una legge costitutiva di validità generale, in quanto i terreni presentano un comportamento non-lineare già a piccole deformazioni, sono anisotropi ed inoltre il loro comportamento dipende non solo dallo sforzo deviatorico ma anche da quello normale. A causa delle suddette difficoltà vengono introdotte delle ipotesi semplificative:

1. Si usano leggi costitutive semplificate: modello rigido perfettamente plastico. Si assume che la resistenza del materiale sia espressa unicamente dai parametri coesione (c) e angolo di resistenza al taglio (φ), costanti per il terreno e caratteristici dello stato plastico; quindi si suppone valido il criterio di rottura di Mohr-Coulomb.
2. In alcuni casi vengono soddisfatte solo in parte le equazioni di equilibrio.

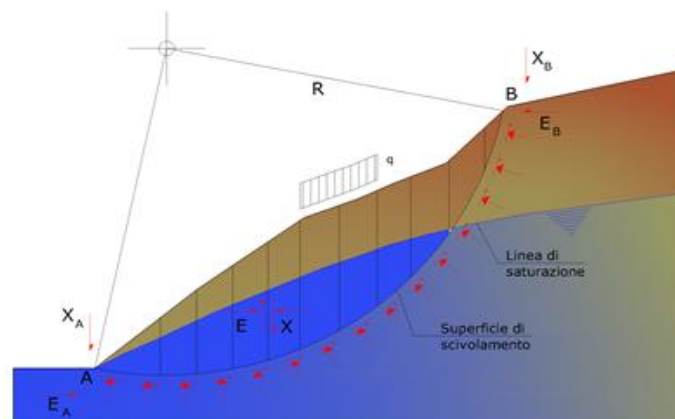
Metodo equilibrio limite (LEM)

Il metodo dell'equilibrio limite consiste nello studiare l'equilibrio di un corpo rigido, costituito dal pendio e da una superficie di scorrimento di forma qualsiasi (linea retta, arco di cerchio, spirale logaritmica); da tale equilibrio vengono calcolate le tensioni da taglio (τ) e confrontate con la resistenza disponibile (τ_f), valutata secondo il criterio di rottura di Coulomb, da tale confronto ne scaturisce la prima indicazione sulla stabilità attraverso il coefficiente di sicurezza:

$$F = \tau_f / \tau$$

Tra i metodi dell'equilibrio limite alcuni considerano l'equilibrio globale del corpo rigido (Culman), altri a causa della non omogeneità dividono il corpo in conci considerando l'equilibrio di ciascuno (Fellenius, Bishop, Janbu ecc.).

Di seguito vengono discussi i metodi dell'equilibrio limite dei conci.



Metodo dei concii

La massa interessata dallo scivolamento viene suddivisa in un numero conveniente di concii. Se il numero dei concii è pari a n , il problema presenta le seguenti incognite:

- n valori delle forze normali N_i agenti sulla base di ciascun concio;
- n valori delle forze di taglio alla base del concio T_i ;
- $(n-1)$ forze normali E_i agenti sull'interfaccia dei concii;
- $(n-1)$ forze tangenziali X_i agenti sull'interfaccia dei concii;
- n valori della coordinata a che individua il punto di applicazione delle E_i ;
- $(n-1)$ valori della coordinata che individua il punto di applicazione delle X_i ;
- una incognita costituita dal fattore di sicurezza F .

Complessivamente le incognite sono $(6n-2)$.

Mentre le equazioni a disposizione sono:

- equazioni di equilibrio dei momenti n ;
- equazioni di equilibrio alla traslazione verticale n ;
- equazioni di equilibrio alla traslazione orizzontale n ;
- equazioni relative al criterio di rottura n .

Totale numero di equazioni $4n$.

Il problema è staticamente indeterminato ed il grado di indeterminazione è pari a :

$$i = (6n - 2) - (4n) = 2n - 2$$

Il grado di indeterminazione si riduce ulteriormente a $(n-2)$ in quanto si fa l'assunzione che N_i sia applicato nel punto medio della striscia. Ciò equivale ad ipotizzare che le tensioni normali totali siano uniformemente distribuite.

I diversi metodi che si basano sulla teoria dell'equilibrio limite si differenziano per il modo in cui vengono eliminate le $(n-2)$ indeterminazioni.

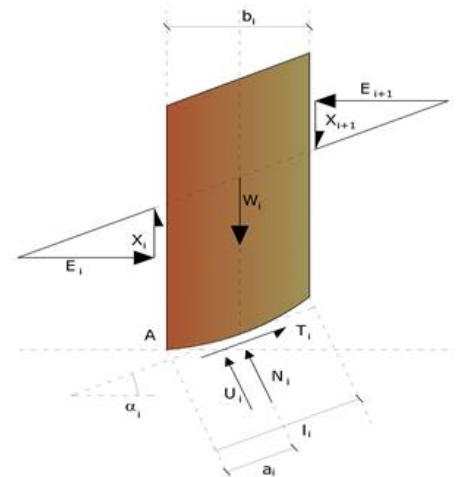
Metodo di Bishop (1955)

Con tale metodo non viene trascurato nessun contributo di forze agenti sui blocchi e fu il primo a descrivere i problemi legati ai metodi convenzionali.

Le equazioni usate per risolvere il problema sono:

$$\sum F_y = 0, \quad \sum M_0 = 0 \quad \text{Criterio di rottura}$$

$$F = \frac{\sum \{c_i \times b_i + (W_i - u_i \times b_i + \Delta X_i) \times \tan \varphi_i\} \times \frac{\sec \alpha_i}{1 + \tan \alpha_i \times \tan \varphi_i / F}}{\sum W_i \times \sin \alpha_i}$$



I valori di F e di ΔX per ogni elemento che soddisfano questa equazione danno una soluzione rigorosa al problema. Come prima approssimazione

conviene porre $\Delta X = 0$ ed iterare per il calcolo del fattore di sicurezza, tale procedimento è noto come metodo di **Bishop ordinario**, gli errori commessi rispetto al metodo completo sono di circa 1 %.

Valutazione dell'azione sismica

La stabilità dei pendii nei confronti dell'azione sismica viene verificata con il metodo pseudo-statico. Per i terreni che sotto l'azione di un carico ciclico possono sviluppare pressioni interstiziali elevate viene considerato un aumento in percento delle pressioni neutre che tiene conto di questo fattore di perdita di resistenza.

Ai fini della valutazione dell'azione sismica vengono considerate le seguenti forze:

$$F_H = K_x W$$

$$F_V = K_y W$$

Essendo:

- F_H e F_V rispettivamente la componente orizzontale e verticale della forza d'inerzia applicata al baricentro del concio;
- W peso concio;
- K_x coefficiente sismico orizzontale;
- K_y coefficiente sismico verticale.

Ricerca della superficie di scorrimento critica

In presenza di mezzi omogenei non si hanno a disposizione metodi per individuare la superficie di scorrimento critica ed occorre esaminarne un numero elevato di potenziali superfici.

Nel caso vengano ipotizzate superfici di forma circolare, la ricerca diventa più semplice, in quanto dopo aver posizionato una maglia dei centri costituita da m righe e n colonne saranno esaminate tutte le superfici aventi per centro il generico nodo della maglia $m \times n$ e raggio variabile in un determinato range di valori tale da esaminare superfici cinematicamente ammissibili.

Analisi di stabilità dei pendii con: BISHOP (1955) - CONDIZIONI STATICHE

Calcolo eseguito secondo	NTC 2008 & Circ.
Numero di strati	4.0
Numero dei conci	50.0
Grado di sicurezza ritenuto accettabile	1.1
Coefficiente parziale resistenza	1.0
Parametri geotecnici da usare. Angolo di attrito:	Picco
Analisi	Condizione drenata
Superficie di forma circolare	

Vertici profilo

Nr	X (m)	y (m)
1	0.0	0.0
2	17.71	3.5
3	20.0	3.79
4	30.25	9.95
5	44.25	9.95
6	47.11	7.66
7	60.62	10.16
8	80.0	12.39

Falda

Nr.	X (m)	y (m)
1	0.39	-1.96
2	18.03	1.52
3	31.94	3.33
4	34.57	3.4
5	60.92	8.18
6	80.23	10.4

Vertici strato1

N	X (m)	y (m)
1	0.0	0.0
2	17.71	3.5
3	20.0	3.79
4	31.79	5.33
5	34.36	5.4
6	47.11	7.66
7	60.62	10.16
8	70.31	11.28
9	80.0	12.39

Vertici strato2

N	X (m)	y (m)
1	0.0	-8.32
2	80.0	0.68

Vertici strato3

N	X (m)	y (m)
1	0.0	-10.02
2	80.0	-1.02

Coefficienti parziali azioni

Sfavorevoli: Permanenti, variabili	1.0	1.3
Favorevoli: Permanenti, variabili	1.0	00

Coefficienti parziali per i parametri geotecnici del terreno

Tangente angolo di resistenza al taglio	1.25
Coesione efficace	1.25
Coesione non drenata	1.4
Riduzione parametri geotecnici terreno	Si

Stratigrafia

Strato	Coesione (kg/cm ²)	Coesione non drenata (kg/cm ²)	Angolo resistenza al taglio (°)	Peso unità di volume (Kg/m ³)	Peso saturo (Kg/m ³)	Litologia	
1	0		35	1900	1900	Rilevato	
2	0.02		25	1900	1900	Ala	
3	0.1		27	2000	2000	Salt	
4	0.5		27	2200	2200	Pa	

Carichi distribuiti

N°	xi (m)	yi (m)	xf (m)	yf (m)	Carico esterno (kg/cm ²)
1	31.75	9.95	41.75	9.95	0.3

Risultati analisi pendio [NTC 2008 & Circ.]

Fs minimo individuato	1.16
Ascissa centro superficie	18.9 m
Ordinata centro superficie	16.22 m
Raggio superficie	17.26 m

B: Larghezza del concio; Alfa: Angolo di inclinazione della base del concio; Li: Lunghezza della base del concio; Wi: Peso del concio; Ui: Forze derivanti dalle pressioni neutre; Ni: forze agenti normalmente alla direzione di scivolamento; Ti: forze agenti parallelamente alla superficie di scivolamento; Fi: Angolo di attrito; c: coesione.

xc = 18.901 yc = 16.217 Rc = 17.258 Fs=1.158

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm ²)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.51	-32.6	0.61	212.09	0.0	0.0	0.02	20.5	0.0	384.8	208.0
2	0.51	-30.6	0.6	617.85	0.0	0.0	0.02	20.5	0.0	946.9	387.2
3	0.51	-28.6	0.58	1000.33	0.0	0.0	0.02	20.5	0.0	1436.6	543.3
4	0.51	-26.7	0.57	1360.86	0.0	0.0	0.02	20.5	0.0	1866.0	680.2
5	0.51	-24.8	0.56	1700.55	0.0	0.0	0.02	20.5	0.0	2244.4	800.8
6	0.51	-23.0	0.56	2020.39	0.0	0.0	0.02	20.5	18.4	2555.9	900.0
7	0.51	-21.1	0.55	2321.22	0.0	0.0	0.02	20.5	173.8	2663.2	933.6
8	0.51	-19.3	0.54	2603.75	0.0	0.0	0.02	20.5	325.6	2751.0	961.0
9	0.51	-17.5	0.54	2868.64	0.0	0.0	0.02	20.5	462.0	2835.6	987.4
10	0.51	-15.7	0.53	3116.41	0.0	0.0	0.02	20.5	595.5	2903.6	1008.7
11	0.51	-14.0	0.53	3347.53	0.0	0.0	0.02	20.5	714.2	2970.2	1029.5
12	0.51	-12.2	0.52	3562.42	0.0	0.0	0.02	20.5	830.4	3022.4	1045.8

13	0.51	-10.5	0.52	3761.41	0.0	0.0	0.02	20.5	932.1	3074.4	1062.1
14	0.51	-8.8	0.52	3944.79	0.0	0.0	0.02	20.5	1031.8	3113.4	1074.3
15	0.51	-7.1	0.52	4112.79	0.0	0.0	0.02	20.5	1117.2	3153.0	1086.7
16	0.67	-5.1	0.68	5634.31	0.0	0.0	0.02	20.5	1590.7	4187.7	1442.0
17	0.35	-3.4	0.35	3027.18	0.0	0.0	0.02	20.5	881.7	2193.7	755.1
18	0.51	-1.9	0.51	4486.46	0.0	0.0	0.02	20.5	1327.6	3197.8	1100.7
19	0.51	-0.2	0.51	4560.89	0.0	0.0	0.02	20.5	1369.3	3196.1	1100.1
20	0.51	1.5	0.51	4620.49	0.0	0.0	0.02	20.5	1397.0	3196.3	1100.2
21	0.4	3.0	0.4	3629.17	0.0	0.0	0.02	20.5	1104.4	2483.6	855.0
22	0.63	4.7	0.63	5906.44	0.0	0.0	0.02	20.5	1755.7	4050.5	1391.2
23	0.51	6.6	0.52	5114.06	0.0	0.0	0.02	20.5	1445.3	3552.7	1215.4
24	0.51	8.3	0.52	5348.55	0.0	0.0	0.02	20.5	1447.6	3755.3	1280.9
25	0.51	10.0	0.52	5567.73	0.0	0.0	0.02	20.5	1435.7	3957.9	1346.5
26	0.51	11.8	0.52	5771.36	0.0	0.0	0.02	20.5	1421.8	4149.5	1408.6
27	0.51	13.5	0.53	5959.17	0.0	0.0	0.02	20.5	1393.4	4342.2	1471.2
28	0.51	15.3	0.53	6130.86	0.0	0.0	0.02	20.5	1362.6	4524.9	1530.6
29	0.51	17.0	0.54	6286.02	0.0	0.0	0.02	20.5	1323.2	4703.7	1588.9
30	0.51	18.8	0.54	6424.19	0.0	0.0	0.02	20.5	1268.7	4885.1	1648.0
31	0.51	20.6	0.55	6544.86	0.0	0.0	0.02	20.5	1211.1	5057.6	1704.4
32	0.51	22.5	0.55	6647.42	0.0	0.0	0.02	20.5	1137.8	5233.5	1762.0
33	0.51	24.3	0.56	6731.18	0.0	0.0	0.02	20.5	1060.8	5401.4	1817.2
34	0.51	26.2	0.57	6795.32	0.0	0.0	0.02	20.5	973.4	5567.6	1871.9
35	0.51	28.1	0.58	6838.91	0.0	0.0	0.02	20.5	869.1	5738.3	1928.3
36	0.51	30.1	0.59	6860.87	0.0	0.0	0.02	20.5	759.6	5902.3	1982.6
37	0.51	32.1	0.6	6859.92	0.0	0.0	0.02	20.5	631.8	6071.7	2038.9
38	0.51	34.1	0.62	6834.56	0.0	0.0	0.02	20.5	497.4	6235.2	2093.5
39	0.51	36.2	0.64	6783.12	0.0	0.0	0.02	20.5	349.2	6399.3	2148.6
40	0.51	38.3	0.65	6703.42	0.0	0.0	0.02	20.5	180.0	6570.6	2206.2
41	0.4	40.3	0.52	5146.68	0.0	0.0	0.02	20.5	15.1	5235.6	1758.4
42	0.63	42.5	0.85	7672.07	0.0	0.0	0.02	20.5	0.0	7954.5	2679.0
43	0.51	45.2	0.73	5750.95	0.0	0.0	0.02	20.5	0.0	6084.5	2059.9
44	0.51	47.6	0.76	5830.03	0.0	0.0	0.02	20.5	0.0	6308.6	2136.7
45	0.51	50.2	0.8	6653.65	0.0	0.0	0.02	20.5	0.0	7403.0	2494.7
46	0.51	53.0	0.85	6024.17	0.0	0.0	0.0	29.3	0.0	6095.4	2947.6
47	0.51	55.9	0.91	5326.54	0.0	0.0	0.0	29.3	0.0	5542.2	2680.1
48	0.51	59.1	1.0	4544.17	0.0	0.0	0.0	29.3	0.0	4892.7	2366.0
49	0.51	62.6	1.11	3651.58	0.0	0.0	0.0	29.3	0.0	4103.8	1984.5
50	0.51	66.6	1.29	2214.81	0.0	0.0	0.0	29.3	0.0	2632.3	1272.9

Analisi di stabilità dei pendii con: BISHOP (1955) - CONDIZIONI SISMICHE

Calcolo eseguito secondo	NTC 2008 & Circ.
Numero di strati	4.0
Numero dei conci	50.0
Grado di sicurezza ritenuto accettabile	1.1
Coefficiente parziale resistenza	1.0
Parametri geotecnici da usare. Angolo di attrito:	Picco
Analisi	Condizione drenata
Superficie di forma circolare	

Coefficiente azione sismica orizzontale	0.084
Coefficiente azione sismica verticale	0.042

Vertici profilo

Nr	X (m)	y (m)
1	0.0	0.0
2	17.71	3.5
3	20.0	3.79
4	30.25	9.95
5	44.25	9.95
6	47.11	7.66
7	60.62	10.16
8	80.0	12.39

Falda

Nr.	X (m)	y (m)
1	0.39	-1.96
2	18.03	1.52
3	31.94	3.33
4	34.57	3.4
5	60.92	8.18
6	80.23	10.4

Vertici strato1

N	X (m)	y (m)
1	0.0	0.0
2	17.71	3.5
3	20.0	3.79
4	31.79	5.33
5	34.36	5.4
6	47.11	7.66
7	60.62	10.16
8	70.31	11.28
9	80.0	12.39

Vertici strato2

N	X (m)	y (m)
1	0.0	-8.32
2	80.0	0.68

Vertici strato3

N	X (m)	y (m)
1	0.0	-10.02
2	80.0	-1.02

Coefficienti parziali azioni

Sfavorevoli: Permanenti, variabili	1.0	1.0
Favorevoli: Permanenti, variabili	1.0	1.0

Coefficienti parziali per i parametri geotecnici del terreno

Tangente angolo di resistenza al taglio	1.0
Coesione efficace	1.0
Coesione non drenata	1.0
Riduzione parametri geotecnici terreno	No

Stratigrafia

Strato	Coesione (kg/cm ²)	Coesione non drenata (kg/cm ²)	Angolo resistenza al taglio (°)	Peso unità di volume (Kg/m ³)	Peso saturo (Kg/m ³)	Litologia	
1	0		35	1900	1900	Rilevato	
2	0.02		25	1900	1900	Ala	
3	0.1		27	2000	2000	Salt	
4	0.5		27	2200	2200	Pa	

Carichi distribuiti

N°	xi (m)	yi (m)	xf (m)	yf (m)	Carico esterno (kg/cm ²)
1	31.75	9.95	41.75	9.95	0.3

Risultati analisi pendio [NTC 2008 & Circ.]

Fs minimo individuato	1.11
Ascissa centro superficie	18.9 m
Ordinata centro superficie	16.22 m
Raggio superficie	17.26 m

$$x_c = 18.901 \quad y_c = 16.217 \quad R_c = 17.258 \quad F_s = 1.105$$

Nr.	B m	Alfa (°)	Li m	Wi (Kg)	Kh•Wi (Kg)	Kv•Wi (Kg)	c (kg/cm ²)	Fi (°)	Ui (Kg)	N'i (Kg)	Ti (Kg)
1	0.51	-32.6	0.61	212.09	17.82	8.91	0.02	25.0	0.0	441.3	296.3
2	0.51	-30.6	0.6	617.85	51.9	25.95	0.02	25.0	0.0	1041.5	547.2
3	0.51	-28.6	0.58	1000.33	84.03	42.01	0.02	25.0	0.0	1556.3	762.3
4	0.51	-26.7	0.57	1360.86	114.31	57.16	0.02	25.0	0.0	2000.9	948.1
5	0.51	-24.8	0.56	1700.55	142.85	71.42	0.02	25.0	0.0	2387.2	1109.4
6	0.51	-23.0	0.56	2020.39	169.71	84.86	0.02	25.0	18.4	2699.9	1239.9
7	0.51	-21.1	0.55	2321.22	194.98	97.49	0.02	25.0	173.8	2796.9	1279.5
8	0.51	-19.3	0.54	2603.75	218.72	109.36	0.02	25.0	325.6	2873.6	1310.7
9	0.51	-17.5	0.54	2868.64	240.97	120.48	0.02	25.0	462.0	2947.1	1340.7
10	0.51	-15.7	0.53	3116.41	261.78	130.89	0.02	25.0	595.5	3003.8	1363.7
11	0.51	-14.0	0.53	3347.53	281.19	140.6	0.02	25.0	714.2	3059.1	1386.3

12	0.51	-12.2	0.52	3562.42	299.24	149.62	0.02	25.0	830.4	3099.9	1402.8
13	0.51	-10.5	0.52	3761.41	315.96	157.98	0.02	25.0	932.1	3140.6	1419.4
14	0.51	-8.8	0.52	3944.79	331.36	165.68	0.02	25.0	1031.8	3168.4	1430.7
15	0.51	-7.1	0.52	4112.79	345.47	172.74	0.02	25.0	1117.2	3197.0	1442.4
16	0.67	-5.1	0.68	5634.31	473.28	236.64	0.02	25.0	1590.7	4229.0	1906.6
17	0.35	-3.4	0.35	3027.18	254.28	127.14	0.02	25.0	881.7	2207.8	995.3
18	0.51	-1.9	0.51	4486.46	376.86	188.43	0.02	25.0	1327.6	3209.5	1447.0
19	0.51	-0.2	0.51	4560.89	383.11	191.56	0.02	25.0	1369.3	3197.5	1441.8
20	0.51	1.5	0.51	4620.49	388.12	194.06	0.02	25.0	1397.0	3187.6	1437.7
21	0.4	3.0	0.4	3629.17	304.85	152.43	0.02	25.0	1104.4	2470.0	1114.5
22	0.63	4.7	0.63	5906.44	496.14	248.07	0.02	25.0	1755.7	4016.3	1808.2
23	0.51	6.6	0.52	5114.06	429.58	214.79	0.02	25.0	1445.3	3511.2	1574.8
24	0.51	8.3	0.52	5348.55	449.28	224.64	0.02	25.0	1447.6	3700.6	1655.1
25	0.51	10.0	0.52	5567.73	467.69	233.84	0.02	25.0	1435.7	3889.2	1735.1
26	0.51	11.8	0.52	5771.36	484.79	242.4	0.02	25.0	1421.8	4065.9	1810.2
27	0.51	13.5	0.53	5959.17	500.57	250.28	0.02	25.0	1393.4	4242.7	1885.5
28	0.51	15.3	0.53	6130.86	514.99	257.5	0.02	25.0	1362.6	4408.7	1956.3
29	0.51	17.0	0.54	6286.02	528.03	264.01	0.02	25.0	1323.2	4570.0	2025.2
30	0.51	18.8	0.54	6424.19	539.63	269.82	0.02	25.0	1268.7	4732.7	2094.8
31	0.51	20.6	0.55	6544.86	549.77	274.88	0.02	25.0	1211.1	4885.8	2160.5
32	0.51	22.5	0.55	6647.42	558.38	279.19	0.02	25.0	1137.8	5041.1	2227.3
33	0.51	24.3	0.56	6731.18	565.42	282.71	0.02	25.0	1060.8	5187.4	2290.5
34	0.51	26.2	0.57	6795.32	570.81	285.4	0.02	25.0	973.4	5331.0	2352.6
35	0.51	28.1	0.58	6838.91	574.47	287.23	0.02	25.0	869.1	5477.5	2416.3
36	0.51	30.1	0.59	6860.87	576.31	288.16	0.02	25.0	759.6	5616.2	2476.8
37	0.51	32.1	0.6	6859.92	576.23	288.12	0.02	25.0	631.8	5758.5	2539.1
38	0.51	34.1	0.62	6834.56	574.1	287.05	0.02	25.0	497.4	5893.4	2598.6
39	0.51	36.2	0.64	6783.12	569.78	284.89	0.02	25.0	349.2	6027.0	2657.8
40	0.51	38.3	0.65	6703.42	563.09	281.54	0.02	25.0	180.0	6165.2	2719.4
41	0.4	40.3	0.52	5146.68	432.32	216.16	0.02	25.0	15.1	4895.3	2160.1
42	0.63	42.5	0.85	7672.07	644.45	322.23	0.02	25.0	0.0	7404.9	3278.0
43	0.51	45.2	0.73	5750.95	483.08	241.54	0.02	25.0	0.0	5633.4	2508.4
44	0.51	47.6	0.76	5690.85	478.03	239.02	0.02	25.0	0.0	5670.6	2530.2
45	0.51	50.2	0.8	6192.26	520.15	260.07	0.02	25.0	0.0	6307.6	2806.3
46	0.51	53.0	0.85	5562.78	467.27	233.64	0.0	35.0	0.0	5020.4	3180.7
47	0.51	55.9	0.91	4865.15	408.67	204.34	0.0	35.0	0.0	4482.9	2840.1
48	0.51	59.1	1.0	4082.77	342.95	171.48	0.0	35.0	0.0	3861.1	2446.2
49	0.51	62.6	1.11	3190.18	267.98	133.99	0.0	35.0	0.0	3118.7	1975.9
50	0.51	66.6	1.29	1843.42	154.85	77.42	0.0	35.0	0.0	1883.0	1193.0



2.1.3 PEDEMONTANA DELLE MARCHE

3° stralcio funzionale: Castelraimondo nord – Castelraimondo sud

4° stralcio funzionale: Castelraimondo sud – innesto S.S. 77 a Muccia

Paratia di sottoscarpa con paramento in SX da 6+937.00 a 6+963.00

Relazione tecnica e di calcolo

Opera L0703	Tratto 213	Settore E	CEE 16	WBS MU0026	Id.doc. REL	N.prog. 01	Rev. C	Pag.di Pag. 45 di 45
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APPENDICE B

REPORT DI CALCOLO VERIFICHE STRUTTURALI

DATI GENERALI SEZIONE GENERICA NON DISSIPATIVA IN C.A.

NOME SEZIONE: MU26_26+26+

Descrizione Sezione:	
Metodo di calcolo resistenza:	Resistenze in campo sostanzialmente elastico
Tipologia sezione:	Sezione generica di Trave di fondazione in combinazione sismica
Normativa di riferimento:	N.T.C.
Percorso sollecitazione:	A Sforzo Norm. costante
Condizioni Ambientali:	Moderat. aggressive
Tipo di sollecitazione:	Retta (asse neutro sempre parallelo all'asse X)
Riferimento Sforzi assegnati:	Assi x,y principali d'inerzia
Riferimento alla sismicit�:	Comb. non sismiche

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

CALCESTRUZZO -	Classe:	C32/40
	Resis. compr. di progetto fcd:	18.8 MPa
	Resis. compr. ridotta fcd':	9.4 MPa
	Def.unit. max resistenza ec2:	0.0020
	Def.unit. ultima ecu:	0.0035
	Diagramma tensione-deformaz.:	Parabola-Rettangolo
	Modulo Elastico Normale Ec:	33642.8 MPa
	Resis. media a trazione fctm:	3.10 MPa
	Coeff. Omogen. S.L.E.:	15.00
	Sc limite S.L.E. comb. Rare:	19.9 MPa
	Sc limite S.L.E. comb. Frequenti:	19.9 MPa
	Ap.Fessure limite S.L.E. comb. Frequenti:	0.300 mm
	Sc limite S.L.E. comb. Q.Permanenti:	14.9 MPa
	Ap.Fess.limite S.L.E. comb. Q.Perm.:	0.200 mm
ACCIAIO -	Tipo:	B450C
	Resist. caratt. snervam. fyk:	450.0 MPa
	Resist. caratt. rottura ftk:	450.0 MPa
	Resist. snerv. di progetto fyd:	391.3 MPa
	Resist. ultima di progetto ftd:	391.3 MPa
	Deform. ultima di progetto Epu:	0.068
	Modulo Elastico Ef	2000000 daN/cm ²
	Diagramma tensione-deformaz.:	Bilineare finito
	Coeff. Aderenza istantaneo $\beta_1 \cdot \beta_2$:	1.00
	Coeff. Aderenza differito $\beta_1 \cdot \beta_2$:	0.50
Sf limite S.L.E. Comb. Rare:	360.00 MPa	

CARATTERISTICHE DOMINIO CALCESTRUZZO

Forma del Dominio:	Circolare
Classe Calcestruzzo:	C32/40

Raggio circ.:	75.0 cm
X centro circ.:	0.0 cm
Y centro circ.:	0.0 cm

DATI BARRE ISOLATE

N°Barra	X [cm]	Y [cm]	DiamØ[mm]
1	0.0	57.6	26
2	0.0	-57.6	26
3	13.8	55.9	26
4	-13.8	55.9	26
5	-13.8	-55.9	26
6	13.8	-55.9	26
7	26.8	51.0	26

8	-26.8	51.0	26
9	-26.8	-51.0	26
10	26.8	-51.0	26
11	38.2	43.1	26
12	-38.2	43.1	26
13	-38.2	-43.1	26
14	38.2	-43.1	26
15	47.4	32.7	26
16	-47.4	32.7	26
17	-47.4	-32.7	26
18	47.4	-32.7	26
19	53.9	20.4	26
20	-53.9	20.4	26
21	-53.9	-20.4	26
22	53.9	-20.4	26
23	57.2	6.9	26
24	-57.2	-6.9	26
25	-57.2	6.9	26
26	57.2	-6.9	26

DATI GENERAZIONI CIRCOLARI DI BARRE

N°Gen.	Numero assegnato alla singola generazione circolare di barre				
Xcentro	Ascissa [cm] del centro della circonf. lungo cui sono disposte le barre generate				
Ycentro	Ordinata [cm] del centro della circonf. lungo cui sono disposte le barre generate				
Raggio	Raggio [cm] della circonferenza lungo cui sono disposte le barre generate				
N°Barre	Numero di barre generate equidist. disposte lungo la circonferenza				
Ø	Diametro [mm] della singola barra generata				

N°Gen.	Xcentro	Ycentro	Raggio	N°Barre	Ø
1	0.0	0.0	63.1	26	26

ARMATURE A TAGLIO

Diametro staffe:	16	mm
Passo staffe:	20.0	cm
Staffe:	Una sola staffa chiusa perimetrale	

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baric. (+ se di compressione)		
Mx	Momento flettente [daNm] intorno all'asse X di riferimento delle coordinate con verso positivo se tale da comprimere il lembo sup. della sez.		
Vy	Componente del Taglio [kN] parallela all'asse Y di riferimento delle coordinate		

N°Comb.	N	Mx	Vy
1	0.00	1564.30	378.66
2	0.00	1302.00	334.30

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)		
Mx	Momento flettente [kNm] intorno all'asse X di riferimento (tra parentesi Mom.Fessurazione) con verso positivo se tale da comprimere il lembo superiore della sezione		

N°Comb.	N	Mx	My
1	627.00	1203.40	0.00

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)
Mx Momento flettente [kNm] intorno all'asse X di riferimento (tra parentesi Mom.Fessurazione)
con verso positivo se tale da comprimere il lembo superiore della sezione

N°Comb.	N	Mx	My
1	627.00	1203.40 (1493.67)	0.00 (0.00)

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N Sforzo normale [kN] applicato nel Baricentro (+ se di compressione)
Mx Momento flettente [kNm] intorno all'asse X di riferimento (tra parentesi Mom.Fessurazione)
con verso positivo se tale da comprimere il lembo superiore della sezione

N°Comb.	N	Mx	My
1	627.00	1203.40 (1493.67)	0.00 (0.00)

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

Copriferro netto minimo barre longitudinali: 10.6 cm
Interferro netto minimo barre longitudinali: 2.9 cm
Copriferro netto minimo staffe: 9.0 cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE SOSTANZIALMENTE ELASTICO

Ver S = combinazione verificata / N = combin. non verificata
N Sforzo normale assegnato [kN] nel baricentro B sezione cls.(positivo se di compressione)
Mx Componente del momento assegnato [kNm] riferito all'asse x princ. d'inerzia
N Res Sforzo normale resistente [kN] nel baricentro B sezione cls.(positivo se di compress.)
Mx Res Momento flettente resistente [kNm] riferito all'asse x princ. d'inerzia
Mis.Sic. Misura sicurezza = rapporto vettoriale tra (N r,Mx Res,My Res) e (N,Mx,My)
Verifica positiva se tale rapporto risulta >=1.000
As Tesa Area armature trave [cm²] in zona tesa. [Tra parentesi l'area minima ex § 7.2.6 NTC]

N°Comb	Ver	N	Mx	N Res	Mx Res	Mis.Sic.	As Tesa
1	S	0.00	1564.30	0.00	3955.62	2.53	138.0(35.3)
2	S	0.00	1302.00	0.00	3955.62	3.04	138.0(35.3)

METODO AGLI STATI LIMITE IN CAMPO SOSTANZIALMENTE ELASTICO - DEFORMAZIONI UNITARIE ALLO STATO LIMITE

ec max Deform. unit. massima del calcestruzzo a compressione
x/d Rapporto di duttilità [§ 4.1.2.1.2.1 NTC] deve essere < 0.45
Xc max Ascissa in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
Yc max Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)
es min Deform. unit. minima nell'acciaio (negativa se di trazione)
Xs min Ascissa in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
Ys min Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
es max Deform. unit. massima nell'acciaio (positiva se di compress.)
Xs max Ascissa in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)
Ys max Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)

N°Comb	ec max	x/d	Xc max	Yc max	es min	Xs min	Ys min	es max	Xs max	Ys max
1	0.00103	0.344	0.0	75.0	0.00077	0.0	63.1	-0.00196	0.0	-63.1
2	0.00103	0.344	0.0	75.0	0.00077	0.0	63.1	-0.00196	0.0	-63.1

POSIZIONE ASSE NEUTRO PER OGNI COMB. DI RESISTENZA

a, b, c Coeff. a, b, c nell'eq. dell'asse neutro $aX+bY+c=0$ nel rif. X,Y,O gen.
 x/d Rapp. di duttilità (travi e solette) [§ 4.1.2.1.2.1 NTC]: deve essere < 0.45
 C.Rid. Coeff. di riduz. momenti per sola flessione in travi continue

N°Comb	a	b	c	x/d	C.Rid.
1	0.000000000	0.000021612	-0.000592772	0.344	0.871
2	0.000000000	0.000021612	-0.000592772	0.344	0.871

VERIFICHE A TAGLIO

Diam. Staffe: 16 mm
 Passo staffe: 20.0 cm [Passo massimo di normativa = 33.0 cm]

Ver S = comb. verificata / N = comb. non verificata
 Ved Taglio di progetto [kN] = V_y ortogonale all'asse neutro
 Vcd Taglio compressione resistente [kN] lato calcestruzzo [formula (4.1.28)NTC]
 Vwd Taglio resistente [kN] assorbito dalle staffe [(4.1.18) NTC]
 Dmed Altezza utile media pesata [cm] valutata lungo strisce ortog. all'asse neutro.
 La resistenza delle travi è calcolata assumendo il valore di 0.9 Dmed come coppia interna.
 I pesi della media sono le lunghezze delle strisce. (Sono escluse le strisce totalmente non compresse).
 bw Larghezza media resistente a taglio [cm] misurate parallel. all'asse neutro
 E' data dal rapporto tra l'area delle sopradette strisce resistenti e Dmed.
 Ctg Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
 Acw Coefficiente maggiorativo della resistenza a taglio per compressione
 Ast Area staffe+legature strettam. necessarie a taglio per metro di pil.[cm²/m]
 A.Eff Area staffe+legature efficaci nella direzione del taglio di combinaz.[cm²/m]
 Tra parentesi è indicata la quota dell'area relativa alle sole legature.
 L'area della legatura è ridotta col fattore L/d_{max} con L =lungh.legat.proietta-
 sulla direz. del taglio e d_{max} = massima altezza utile nella direz.del taglio.

N°Comb	Ver	Ved	Vcd	Vwd	Dmed	bw	Ctg	Acw	Ast	A.Eff
1	S	378.66	4584.51	2075.29	117.2	134.0	2.500	1.000	3.7	20.1(0.0)
2	S	334.30	4584.51	2075.29	117.2	134.0	2.500	1.000	3.2	20.1(0.0)

COMBINAZIONI RARE IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

Ver S = comb. verificata/ N = comb. non verificata
 Sc max Massima tensione (positiva se di compressione) nel calcestruzzo [MPa]
 Xc max, Yc max Ascissa, Ordinata [cm] del punto corrisp. a Sc max (sistema rif. X,Y,O)
 Ss min Minima tensione (negativa se di trazione) nell'acciaio [MPa]
 Xs min, Ys min Ascissa, Ordinata [cm] della barra corrisp. a Ss min (sistema rif. X,Y,O)
 Ac eff. Area di calcestruzzo [cm²] in zona tesa considerata aderente alle barre
 As eff. Area barre [cm²] in zona tesa considerate efficaci per l'apertura delle fessure

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	4.55	0.0	0.0	-95.1	0.0	-63.1	2636	63.7

COMBINAZIONI RARE IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

Ver. La sezione viene assunta sempre fessurata anche nel caso in cui la trazione minima del calcestruzzo sia inferiore a f_{ctm}
 Esito della verifica
 e1 Massima deformazione di trazione del calcestruzzo, valutata in sezione fessurata
 e2 Minima deformazione di trazione del cls. (in sezione fessurata), valutata nella fibra più interna dell'area Ac eff
 k1 = 0.8 per barre ad aderenza migliorata [eq.(7.11)EC2]
 kt = 0.4 per comb. quasi permanenti / = 0.6 per comb.frequenti [cfr. eq.(7.9)EC2]
 k2 = $(e1 + e2)/(2 \cdot e1)$ [eq.(7.13)EC2]
 k3 = 3.400 Coeff. in eq.(7.11) come da annessi nazionali
 k4 = 0.425 Coeff. in eq.(7.11) come da annessi nazionali
 Ø Diametro [mm] equivalente delle barre tese comprese nell'area efficace Ac eff [eq.(7.11)EC2]
 Cf Copriferro [mm] netto calcolato con riferimento alla barra più tesa
 e sm - e cm Differenza tra le deformazioni medie di acciaio e calcestruzzo [(7.8)EC2 e (C4.1.7)NTC]
 Tra parentesi: valore minimo = $0.6 S_{max} / E_s$ [(7.9)EC2 e (C4.1.8)NTC]
 sr max Massima distanza tra le fessure [mm]
 wk Apertura fessure in mm calcolata = $sr \max \cdot (e_{sm} - e_{cm})$ [(7.8)EC2 e (C4.1.7)NTC]. Valore limite tra parentesi
 Mx fess. Componente momento di prima fessurazione intorno all'asse X [kNm]

My fess.		Componente momento di prima fessurazione intorno all'asse Y [kNm]										
Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm sr max			wk	Mx fess	My fess
1	S	-0.00055	0.00000	0.833	26.0	106	0.00029 (0.00029) 665 0.190 (990.00)			1493.67	0.00	

COMBINAZIONI FREQUENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	4.55	0.0	0.0	-95.1	0.0	-63.1	2636	63.7

COMBINAZIONI FREQUENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm sr max			wk	Mx fess	My fess
1	S	-0.00055	0.00000	0.833	26.0	106	0.00029 (0.00029) 665 0.190 (0.30)			1493.67	0.00	

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - MASSIME TENSIONI NORMALI ED APERTURA FESSURE (NTC/EC2)

N°Comb	Ver	Sc max	Xc max	Yc max	Ss min	Xs min	Ys min	Ac eff.	As eff.
1	S	4.55	0.0	0.0	-95.1	0.0	-63.1	2636	63.7

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - APERTURA FESSURE [§ 7.3.4 EC2]

Comb.	Ver	e1	e2	k2	Ø	Cf	e sm - e cm sr max			wk	Mx fess	My fess
1	S	-0.00055	0.00000	0.833	26.0	106	0.00029 (0.00029) 665 0.190 (0.20)			1493.67	0.00	

DATI GENERALI SEZIONE DI TRAVE DI FONDAZIONE IN C.A.

NOME SEZIONE: **Paramento 367**

Descrizione Sezione:	
Metodo di calcolo resistenza:	Resistenze in campo sostanzialmente elastico
Normativa di riferimento:	N.T.C.
Tipologia sezione:	Sezione predefinita di trave di fondazione in combinazione sismica
Forma della sezione:	Rettangolare
Percorso sollecitazione:	A Sforzo Norm. costante
Condizioni Ambientali:	Moderat. aggressive
Riferimento Sforzi assegnati:	Assi x,y principali d'inerzia
Riferimento alla sismicit�:	Comb. non sismiche
	Sezione appartenente a trave di fondazione (arm.minima ex §7.2.5NTC)

CARATTERISTICHE DI RESISTENZA DEI MATERIALI IMPIEGATI

CALCESTRUZZO -	Classe:	C25/30
	Resistenza compress. di progetto fcd:	14.16 MPa
	Resistenza compress. ridotta fcd':	7.08 MPa
	Deform. unitaria max resistenza ec2:	0.0020
	Deformazione unitaria ultima ecu:	0.0035
	Diagramma tensioni-deformaz.:	Parabola-Rettangolo
	Modulo Elastico Normale Ec:	31475.0 MPa
	Resis. media a trazione fctm:	2.56 MPa
	Coeff.Omogen. S.L.E.:	15.00
	Sc limite S.L.E. comb. Rare:	15.0 MPa
	Sc limite S.L.E. comb. Frequenti:	15.0 MPa
	Ap.Fessure limite S.L.E. comb. Frequenti:	0.300 mm
	Sc limite S.L.E. comb. Q.Permanenti:	11.3 MPa
	Ap.Fess.limite S.L.E. comb. Q.Perm.:	0.200 mm
ACCIAIO -	Tipo:	B450C
	Resist. caratt. a snervamento fyk:	450.0 MPa
	Resist. caratt. a rottura ftk:	450.0 MPa
	Resist. a snerv. di progetto fyd:	391.3 MPa
	Resist. ultima di progetto ftd:	391.3 MPa
	Deform. ultima di progetto Epu:	0.068
	Modulo Elastico Ef:	200000.0 MPa
	Diagramma tensioni-deformaz.:	Bilineare finito
	Coeff. Aderenza istant. $\beta_1*\beta_2$:	1.00
	Coeff. Aderenza differito $\beta_1*\beta_2$:	0.50
	Comb.Rare - Sf Limite:	360.0 MPa

CARATTERISTICHE GEOMETRICHE ED ARMATURE SEZIONE

Base:	100.0	cm
Altezza:	75.0	cm
Barre inferiori:	5Ø20	(15.7 cm ²)
Barre superiori:	5Ø20	(15.7 cm ²)
Coprif.Inf.(dal baric. barre):	7.4	cm
Coprif.Sup.(dal baric. barre):	7.4	cm
Coprif.Lat. (dal baric.barre):	7.4	cm

CALCOLO DI RESISTENZA - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N	Sforzo normale [kN] applicato nel baricentro (posit. se di compress.)
Mx	Momento flettente [kNm] intorno all'asse x baric. della sezione con verso positivo se tale da comprimere il lembo sup. della sezione
Vy	Taglio [kN] in direzione parallela all'asse Y del riferim. generale
MT	Momento torcente [kN m]

N°Comb. N Mx Vy MT

1	0.00	33.00	30.00	0.00
2	0.00	45.00	36.00	0.00

COMB. RARE (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N Sforzo normale [kN] applicato nel baricentro (positivo se di compress.)
Mx Coppia [kNm] applicata all'asse x baricentrico (tra parentesi il Momento di fessurazione)
con verso positivo se tale da comprimere il lembo superiore della sezione

N°Comb.	N	Mx
1	0.00	25.00

COMB. FREQUENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N Sforzo normale [kN] applicato nel baricentro (positivo se di compress.)
Mx Coppia [kNm] applicata all'asse x baricentrico (tra parentesi il Momento di fessurazione)
con verso positivo se tale da comprimere il lembo superiore della sezione

N°Comb.	N	Mx
1	0.00	25.00 (269.15)

COMB. QUASI PERMANENTI (S.L.E.) - SFORZI PER OGNI COMBINAZIONE ASSEGNATA

N Sforzo normale [kN] applicato nel baricentro (positivo se di compress.)
Mx Coppia [kNm] applicata all'asse x baricentrico (tra parentesi il Momento di fessurazione)
con verso positivo se tale da comprimere il lembo superiore della sezione

N°Comb.	N	Mx
1	0.00	25.00 (269.15)

RISULTATI DEL CALCOLO

Sezione verificata per tutte le combinazioni assegnate

Copriferro netto minimo barre longitudinali:	6.4	cm
Interferro netto minimo barre longitudinali:	19.3	cm
Copriferro netto minimo staffe:	5.0	cm

VERIFICHE DI RESISTENZA IN PRESSO-TENSO FLESSIONE ALLO STATO LIMITE SOSTANZIALMENTE ELASTICO

Ver S = combinazione verificata / N = combin. non verificata
N Sforzo normale baricentrico assegnato [kN] (positivo se di compressione)
Mx Momento flettente assegnato [kNm] riferito all'asse x baricentrico
N Ult Sforzo normale alla massima resistenza [kN] nella sezione (positivo se di compress.)
Mx re Momento resistente sostanzialmente elastico [kNm] riferito all'asse x baricentrico
Mis.Sic. Misura sicurezza = rapporto vettoriale tra (N re, Mx re) e (N, Mx)
Verifica positiva se tale rapporto risulta ≥ 1.000
Yn Ordinata [cm] dell'asse neutro alla massima resistenza nel sistema di rif. X,Y,O sez.
x/d Rapp. di duttilità (travi e solette)[§ 4.1.2.1.2.1 NTC]: deve essere < 0.45
C.Rid. Coeff. di riduz. momenti in travi continue [formula (4.1.1)NTC]
As Tesa Area armature long. trave [cm²] in zona tesa. (tra parentesi l'area minima di normativa)

N°Comb	Ver	N	Mx	N re	Mx re	Mis.Sic.	Yn	x/d	C.Rid.	As Tesa
1	S	0.00	33.00			11.583	60.1	0.22	0.71	15.7 (15.0)
2	S	0.00	45.00			8.494	60.1	0.22	0.71	15.7 (15.0)

DEFORMAZIONI UNITARIE ALLO STATO LIMITE SOSTANZIALMENTE ELASTICO

ec max Deform. unit. massima del calcestruzzo a compressione
Yc max Ordinata in cm della fibra corrisp. a ec max (sistema rif. X,Y,O sez.)

es min	Deform. unit. minima nell'acciaio (negativa se di trazione)
Ys min	Ordinata in cm della barra corrisp. a es min (sistema rif. X,Y,O sez.)
es max	Deform. unit. massima nell'acciaio (positiva se di compressione)
Ys max	Ordinata in cm della barra corrisp. a es max (sistema rif. X,Y,O sez.)

N°Comb	ec max	Yc max	es min	Ys min	es max	Ys max
1	0.00055	75.0	0.00028	67.6	-0.00196	7.4
2	0.00055	75.0	0.00028	67.6	-0.00196	7.4

ARMATURE A TAGLIO E/O TORSIONE DI INVILUPPO PER LE COMBINAZIONI ASSEGNATE

Diametro staffe/legature:	14	mm	
Passo staffe:	20.0	cm	[Passo massimo di normativa = 30.8 cm]
N.Bracci staffe:	3		
Area staffe/m :	23.1	cm ² /m	[Area Staffe Minima NTC = 15.0 cm ² /m]

VERIFICHE A TAGLIO

Ver	S = comb.verificata a taglio-tors./ N = comb. non verificata
Ved	Taglio agente [kN] uguale al taglio Vy di comb. (sollecit. retta)
Vrd	Taglio resistente [kN] in assenza di staffe [formula (4.1.23)NTC]
Vcd	Taglio compressione resistente [kN] lato calcestruzzo [formula (4.1.28)NTC]
Vwd	Taglio trazione resistente [kN] assorbito dalle staffe [formula (4.1.27)NTC]
bw|d	Larghezza minima [cm] sezione misurata parallelam. all'asse neutro | Altezza utile sezione
Ctg	Cotangente dell'angolo di inclinazione dei puntoni di calcestruzzo
Acw	Coefficiente maggiorativo della resistenza a taglio per compressione
Ast	Area staffe/metro strettamente necessaria per taglio e torsione [cm ² /m]

N°Comb	Ver	Ved	Vrd	Vcd	Vwd	bw|d	Ctg	Acw	Ast
1	S	30.00	226.95	1485.35	1374.28	100.0|67.6	2.500	1.000	0.5
2	S	36.00	226.95	1485.35	1374.28	100.0|67.6	2.500	1.000	0.6

COMBINAZIONI RARE IN ESERCIZIO - VERIFICA MASSIME TENSIONI NORMALI

Ver	S = combinazione verificata / N = combin. non verificata
Sc max	Massima tensione di compress.(+) nel conglom. in fase fessurata ([MPa]
Yc max	Ordinata in cm della fibra corrisp. a Sc max (sistema rif. X,Y,O)
Sc min	Minima tensione di compress.(+) nel conglom. in fase fessurata ([MPa]
Yc min	Ordinata in cm della fibra corrisp. a Sc min (sistema rif. X,Y,O)
Ss min	Minima tensione di trazione (-) nell'acciaio [MPa]
Ys min	Ordinata in cm della barra corrisp. a Ss min (sistema rif. X,Y,O)
Dw Eff.	Spessore di calcestruzzo [cm] in zona tesa considerata aderente alle barre
Ac eff.	Area di congl. [cm ²] in zona tesa aderente alle barre (verifica fess.)
As eff.	Area Barre tese di acciaio [cm ²] ricadente nell'area efficace(verifica fess.)
D barre	Distanza in cm tra le barre tese efficaci. (D barre = 0 indica spaziatura superiore a 5(c+Ø/2) e nel calcolo di fess. si usa la (C4.1.11)NTC/(7.14)EC2)

N°Comb	Ver	Sc max	Yc max	Sc min	Yc min	Ss min	Ys min	Dw Eff.	Ac Eff.	As Eff.	D barre
1	S	0.47	75.0	0.00	60.3	-25.5	67.6	18.5	1850	15.7	21.3

COMBINAZIONI RARE IN ESERCIZIO - VERIFICA APERTURA FESSURE (NTC/EC2)

Ver	Esito verifica
e1	Minima deformazione unitaria (trazione: segno -) nel calcestruzzo in sez. fessurata
e2	Massima deformazione unitaria (compress.: segno +) nel calcestruzzo in sez. fessurata
K2	= 0.5 per flessione; =(e1 + e2)/(2*e2)in trazione eccentrica per la (7.13)EC2 e la (C4.1.11)NTC
Kt	fattore di durata del carico di cui alla (7.9) dell'EC2
e sm	Deformazione media acciaio tra le fessure al netto di quella del cls. Tra parentesi il valore minimo = 0.6 Ss/Es
srm	Distanza massima in mm tra le fessure
wk	Apertura delle fessure in mm fornito dalla (7.8)EC2 e dalla (C4.1.7)NTC. Tra parentesi è indicato il valore limite.
M fess.	Momento di prima fessurazione [kNm]

N°Comb	Ver	e1	e2	K2	Kt	e sm	srm	wk	M Fess.
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1	S	-0.00015	0.00004		0.50	0.60	0.000077 (0.000077)	618	0.047 (990.00)	269.15
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COMBINAZIONI FREQUENTI IN ESERCIZIO - VERIFICA MASSIME TENSIONI NORMALI

N°Comb	Ver	Sc max	Yc max	Sc min	Yc min	Ss min	Ys min	Dw Eff.	Ac Eff.	As Eff.	D barre
1	S	0.47	75.0	0.00	60.3	-25.5	67.6	18.5	1850	15.7	21.3

COMBINAZIONI FREQUENTI IN ESERCIZIO - VERIFICA APERTURA FESSURE (NTC/EC2)

N°Comb	Ver	e1	e2	K2	Kt	e sm	srm	wk	M Fess.
1	S	-0.00015	0.00004	0.50	0.60	0.000077 (0.000077)	618	0.047 (0.30)	269.15

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - VERIFICA MASSIME TENSIONI NORMALI

N°Comb	Ver	Sc max	Yc max	Sc min	Yc min	Ss min	Ys min	Dw Eff.	Ac Eff.	As Eff.	D barre
1	S	0.47	75.0	0.00	60.3	-25.5	67.6	18.5	1850	15.7	21.3

COMBINAZIONI QUASI PERMANENTI IN ESERCIZIO - VERIFICA APERTURA FESSURE (NTC/EC2)

N°Comb	Ver	e1	e2	K2	Kt	e sm	srm	wk	M Fess.
1	S	-0.00015	0.00004	0.50	0.40	0.000077 (0.000077)	618	0.047 (0.20)	269.15